

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-3000	7,399274E+22	7,399156E+22	7,129416E+22	7,129412E+22	1,479843E+23	1,425883E+23	2,905726E+23
-2999	7,398880E+22	7,399180E+22	7,129560E+22	7,129473E+22	1,479806E+23	1,425903E+23	2,905709E+23
-2998	7,399213E+22	7,399246E+22	7,129540E+22	7,129689E+22	1,479846E+23	1,425923E+23	2,905769E+23
-2997	7,399195E+22	7,399196E+22	7,129627E+22	7,129409E+22	1,479839E+23	1,425904E+23	2,905743E+23
-2996	7,399038E+22	7,399125E+22	7,129739E+22	7,129679E+22	1,479816E+23	1,425942E+23	2,905758E+23
-2995	7,399422E+22	7,399232E+22	7,129654E+22	7,129756E+22	1,479865E+23	1,425941E+23	2,905806E+23
-2994	7,399139E+22	7,399262E+22	7,129692E+22	7,129567E+22	1,479840E+23	1,425926E+23	2,905766E+23
-2993	7,399206E+22	7,399249E+22	7,129665E+22	7,129866E+22	1,479846E+23	1,425953E+23	2,905799E+23
-2992	7,399468E+22	7,399318E+22	7,129604E+22	7,129660E+22	1,479879E+23	1,425926E+23	2,905805E+23
-2991	7,399087E+22	7,399262E+22	7,129737E+22	7,129537E+22	1,479835E+23	1,425927E+23	2,905762E+23
-2990	7,399342E+22	7,399291E+22	7,129670E+22	7,129741E+22	1,479863E+23	1,425941E+23	2,905804E+23
-2989	7,399337E+22	7,399287E+22	7,129634E+22	7,129461E+22	1,479862E+23	1,425910E+23	2,905772E+23
-2988	7,398969E+22	7,399191E+22	7,129667E+22	7,129632E+22	1,479816E+23	1,425930E+23	2,905746E+23
-2987	7,399278E+22	7,399232E+22	7,129556E+22	7,129710E+22	1,479851E+23	1,425927E+23	2,905778E+23
-2986	7,399051E+22	7,399163E+22	7,129579E+22	7,129388E+22	1,479821E+23	1,425897E+23	2,905718E+23
-2985	7,399032E+22	7,399046E+22	7,129546E+22	7,129607E+22	1,479808E+23	1,425915E+23	2,905723E+23
-2984	7,399382E+22	7,399114E+22	7,129445E+22	7,129510E+22	1,479850E+23	1,425896E+23	2,905745E+23
-2983	7,398986E+22	7,399101E+22	7,129537E+22	7,129379E+22	1,479809E+23	1,425892E+23	2,905700E+23
-2982	7,399127E+22	7,399184E+22	7,129482E+22	7,129656E+22	1,479831E+23	1,425914E+23	2,905745E+23
-2981	7,399273E+22	7,399254E+22	7,129498E+22	7,129452E+22	1,479853E+23	1,425895E+23	2,905748E+23
-2980	7,398924E+22	7,399151E+22	7,129647E+22	7,129539E+22	1,479807E+23	1,425919E+23	2,905726E+23
-2979	7,399299E+22	7,399212E+22	7,129665E+22	7,129720E+22	1,479851E+23	1,425939E+23	2,905790E+23
-2978	7,399239E+22	7,399232E+22	7,129730E+22	7,129498E+22	1,479847E+23	1,425923E+23	2,905770E+23
-2977	7,399099E+22	7,399176E+22	7,129729E+22	7,129782E+22	1,479827E+23	1,425951E+23	2,905779E+23
-2976	7,399480E+22	7,399332E+22	7,129643E+22	7,129849E+22	1,479881E+23	1,425949E+23	2,905830E+23
-2975	7,399155E+22	7,399310E+22	7,129753E+22	7,129644E+22	1,479847E+23	1,425940E+23	2,905786E+23
-2974	7,399234E+22	7,399332E+22	7,129724E+22	7,129844E+22	1,479857E+23	1,425957E+23	2,905813E+23
-2973	7,399535E+22	7,399379E+22	7,129719E+22	7,129651E+22	1,479891E+23	1,425937E+23	2,905828E+23
-2972	7,399130E+22	7,399236E+22	7,129806E+22	7,129612E+22	1,479837E+23	1,425942E+23	2,905778E+23
-2971	7,399334E+22	7,399305E+22	7,129738E+22	7,129816E+22	1,479864E+23	1,425955E+23	2,905819E+23
-2970	7,399290E+22	7,399338E+22	7,129685E+22	7,129567E+22	1,479863E+23	1,425925E+23	2,905788E+23
-2969	7,398987E+22	7,399167E+22	7,129642E+22	7,129681E+22	1,479815E+23	1,425932E+23	2,905748E+23
-2968	7,399366E+22	7,399221E+22	7,129558E+22	7,129719E+22	1,479859E+23	1,425928E+23	2,905786E+23
-2967	7,399133E+22	7,399124E+22	7,129631E+22	7,129413E+22	1,479826E+23	1,425904E+23	2,905730E+23
-2966	7,399077E+22	7,399126E+22	7,129556E+22	7,129602E+22	1,479820E+23	1,425916E+23	2,905736E+23
-2965	7,399415E+22	7,399250E+22	7,129494E+22	7,129552E+22	1,479867E+23	1,425905E+23	2,905771E+23
-2964	7,398989E+22	7,399151E+22	7,129584E+22	7,129478E+22	1,479814E+23	1,425906E+23	2,905720E+23
-2963	7,399128E+22	7,399226E+22	7,129601E+22	7,129697E+22	1,479835E+23	1,425930E+23	2,905765E+23
-2962	7,399281E+22	7,399291E+22	7,129642E+22	7,129511E+22	1,479857E+23	1,425915E+23	2,905772E+23
-2961	7,399005E+22	7,399119E+22	7,129711E+22	7,129608E+22	1,479812E+23	1,425932E+23	2,905744E+23
-2960	7,399389E+22	7,399234E+22	7,129698E+22	7,129821E+22	1,479862E+23	1,425952E+23	2,905814E+23
-2959	7,399257E+22	7,399261E+22	7,129763E+22	7,129644E+22	1,479852E+23	1,425941E+23	2,905793E+23
-2958	7,399106E+22	7,399291E+22	7,129715E+22	7,129844E+22	1,479840E+23	1,425956E+23	2,905796E+23
-2957	7,399536E+22	7,399427E+22	7,129698E+22	7,129863E+22	1,479896E+23	1,425956E+23	2,905852E+23
-2956	7,399235E+22	7,399301E+22	7,129825E+22	7,129666E+22	1,479854E+23	1,425949E+23	2,905803E+23
-2955	7,399317E+22	7,399339E+22	7,129847E+22	7,129824E+22	1,479866E+23	1,425967E+23	2,905833E+23
-2954	7,399540E+22	7,399440E+22	7,129823E+22	7,129702E+22	1,479898E+23	1,425953E+23	2,905851E+23
-2953	7,399139E+22	7,399268E+22	7,129815E+22	7,129705E+22	1,479841E+23	1,425952E+23	2,905793E+23
-2952	7,399340E+22	7,399341E+22	7,129739E+22	7,129897E+22	1,479868E+23	1,425964E+23	2,905832E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2951	7,399270E+22	7,399316E+22	7,129737E+22	7,129648E+22	1,479859E+23	1,425939E+23	2,905797E+23
-2950	7,399021E+22	7,399193E+22	7,129660E+22	7,129668E+22	1,479821E+23	1,425933E+23	2,905754E+23
-2949	7,399459E+22	7,399244E+22	7,129612E+22	7,129716E+22	1,479870E+23	1,425933E+23	2,905803E+23
-2948	7,399194E+22	7,399121E+22	7,129650E+22	7,129485E+22	1,479832E+23	1,425914E+23	2,905745E+23
-2947	7,399091E+22	7,399189E+22	7,129603E+22	7,129644E+22	1,479828E+23	1,425925E+23	2,905753E+23
-2946	7,399377E+22	7,399351E+22	7,129569E+22	7,129621E+22	1,479873E+23	1,425919E+23	2,905792E+23
-2945	7,399017E+22	7,399167E+22	7,129627E+22	7,129532E+22	1,479818E+23	1,425916E+23	2,905734E+23
-2944	7,399196E+22	7,399230E+22	7,129679E+22	7,129735E+22	1,479843E+23	1,425941E+23	2,905784E+23
-2943	7,399332E+22	7,399267E+22	7,129749E+22	7,129609E+22	1,479860E+23	1,425936E+23	2,905796E+23
-2942	7,399047E+22	7,399194E+22	7,129734E+22	7,129672E+22	1,479824E+23	1,425941E+23	2,905765E+23
-2941	7,399451E+22	7,399342E+22	7,129736E+22	7,129914E+22	1,479879E+23	1,425965E+23	2,905844E+23
-2940	7,399306E+22	7,399302E+22	7,129795E+22	7,129749E+22	1,479861E+23	1,425954E+23	2,905815E+23
-2939	7,399157E+22	7,399341E+22	7,129816E+22	7,129845E+22	1,479850E+23	1,425966E+23	2,905816E+23
-2938	7,399586E+22	7,399487E+22	7,129838E+22	7,129870E+22	1,479907E+23	1,425971E+23	2,905878E+23
-2937	7,399318E+22	7,399287E+22	7,129890E+22	7,129694E+22	1,479861E+23	1,425958E+23	2,905819E+23
-2936	7,399347E+22	7,399372E+22	7,129889E+22	7,129896E+22	1,479872E+23	1,425978E+23	2,905850E+23
-2935	7,399496E+22	7,399462E+22	7,129860E+22	7,129842E+22	1,479896E+23	1,425970E+23	2,905866E+23
-2934	7,399097E+22	7,399324E+22	7,129794E+22	7,129763E+22	1,479842E+23	1,425956E+23	2,905798E+23
-2933	7,399383E+22	7,399365E+22	7,129771E+22	7,129921E+22	1,479875E+23	1,425969E+23	2,905844E+23
-2932	7,399353E+22	7,399255E+22	7,129766E+22	7,129674E+22	1,479861E+23	1,425944E+23	2,905805E+23
-2931	7,399113E+22	7,399198E+22	7,129721E+22	7,129639E+22	1,479831E+23	1,425936E+23	2,905767E+23
-2930	7,399488E+22	7,399340E+22	7,129672E+22	7,129746E+22	1,479883E+23	1,425942E+23	2,905825E+23
-2929	7,399220E+22	7,399196E+22	7,129654E+22	7,129551E+22	1,479842E+23	1,425920E+23	2,905762E+23
-2928	7,399095E+22	7,399272E+22	7,129656E+22	7,129701E+22	1,479837E+23	1,425936E+23	2,905772E+23
-2927	7,399350E+22	7,399368E+22	7,129689E+22	7,129704E+22	1,479872E+23	1,425939E+23	2,905811E+23
-2926	7,399041E+22	7,399194E+22	7,129714E+22	7,129561E+22	1,479823E+23	1,425928E+23	2,905751E+23
-2925	7,399283E+22	7,399239E+22	7,129776E+22	7,129803E+22	1,479852E+23	1,425958E+23	2,905810E+23
-2924	7,399385E+22	7,399252E+22	7,129786E+22	7,129752E+22	1,479864E+23	1,425954E+23	2,905817E+23
-2923	7,399094E+22	7,399254E+22	7,129769E+22	7,129752E+22	1,479835E+23	1,425952E+23	2,905787E+23
-2922	7,399470E+22	7,399433E+22	7,129787E+22	7,129970E+22	1,479890E+23	1,425976E+23	2,905866E+23
-2921	7,399393E+22	7,399329E+22	7,129824E+22	7,129769E+22	1,479872E+23	1,425959E+23	2,905832E+23
-2920	7,399259E+22	7,399370E+22	7,129893E+22	7,129831E+22	1,479863E+23	1,425972E+23	2,905835E+23
-2919	7,399607E+22	7,399504E+22	7,129949E+22	7,129933E+22	1,479911E+23	1,425988E+23	2,905899E+23
-2918	7,399306E+22	7,399384E+22	7,129927E+22	7,129756E+22	1,479869E+23	1,425968E+23	2,905837E+23
-2917	7,399343E+22	7,399452E+22	7,129932E+22	7,129994E+22	1,479879E+23	1,425993E+23	2,905872E+23
-2916	7,399481E+22	7,399453E+22	7,129885E+22	7,129958E+22	1,479893E+23	1,425984E+23	2,905878E+23
-2915	7,399137E+22	7,399316E+22	7,129853E+22	7,129763E+22	1,479845E+23	1,425962E+23	2,905807E+23
-2914	7,399446E+22	7,399372E+22	7,129848E+22	7,129915E+22	1,479882E+23	1,425976E+23	2,905858E+23
-2913	7,399456E+22	7,399238E+22	7,129775E+22	7,129694E+22	1,479869E+23	1,425947E+23	2,905816E+23
-2912	7,399161E+22	7,399258E+22	7,129735E+22	7,129674E+22	1,479842E+23	1,425941E+23	2,905783E+23
-2911	7,399442E+22	7,399409E+22	7,129722E+22	7,129842E+22	1,479885E+23	1,425956E+23	2,905842E+23
-2910	7,399184E+22	7,399284E+22	7,129683E+22	7,129583E+22	1,479847E+23	1,425927E+23	2,905773E+23
-2909	7,399130E+22	7,399305E+22	7,129752E+22	7,129738E+22	1,479844E+23	1,425949E+23	2,905792E+23
-2908	7,399408E+22	7,399312E+22	7,129779E+22	7,129782E+22	1,479872E+23	1,425956E+23	2,905828E+23
-2907	7,399115E+22	7,399190E+22	7,129801E+22	7,129600E+22	1,479830E+23	1,425940E+23	2,905771E+23
-2906	7,399330E+22	7,399316E+22	7,129838E+22	7,129895E+22	1,479865E+23	1,425973E+23	2,905838E+23
-2905	7,399452E+22	7,399302E+22	7,129773E+22	7,129848E+22	1,479875E+23	1,425962E+23	2,905838E+23
-2904	7,399147E+22	7,399337E+22	7,129806E+22	7,129794E+22	1,479848E+23	1,425960E+23	2,905808E+23
-2903	7,399491E+22	7,399487E+22	7,129894E+22	7,130020E+22	1,479898E+23	1,425991E+23	2,905889E+23

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	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2902	7,399435E+22	7,399395E+22	7,129907E+22	7,129768E+22	1,479883E+23	1,425967E+23	2,905850E+23
-2901	7,399320E+22	7,399422E+22	7,129996E+22	7,129894E+22	1,479874E+23	1,425989E+23	2,905863E+23
-2900	7,399594E+22	7,399509E+22	7,129998E+22	7,130072E+22	1,479910E+23	1,426007E+23	2,905917E+23
-2899	7,399292E+22	7,399419E+22	7,129967E+22	7,129838E+22	1,479871E+23	1,425980E+23	2,905852E+23
-2898	7,399344E+22	7,399485E+22	7,129980E+22	7,130050E+22	1,479883E+23	1,426003E+23	2,905886E+23
-2897	7,399567E+22	7,399411E+22	7,129887E+22	7,129976E+22	1,479898E+23	1,425986E+23	2,905884E+23
-2896	7,399254E+22	7,399313E+22	7,129885E+22	7,129737E+22	1,479857E+23	1,425962E+23	2,905819E+23
-2895	7,399488E+22	7,399405E+22	7,129901E+22	7,129950E+22	1,479889E+23	1,425985E+23	2,905874E+23
-2894	7,399458E+22	7,399361E+22	7,129782E+22	7,129717E+22	1,479882E+23	1,425950E+23	2,905832E+23
-2893	7,399167E+22	7,399367E+22	7,129792E+22	7,129738E+22	1,479853E+23	1,425953E+23	2,905806E+23
-2892	7,399397E+22	7,399426E+22	7,129803E+22	7,129933E+22	1,479882E+23	1,425974E+23	2,905856E+23
-2891	7,399204E+22	7,399290E+22	7,129803E+22	7,129607E+22	1,479849E+23	1,425941E+23	2,905791E+23
-2890	7,399176E+22	7,399289E+22	7,129867E+22	7,129782E+22	1,479847E+23	1,425965E+23	2,905811E+23
-2889	7,399490E+22	7,399274E+22	7,129799E+22	7,129879E+22	1,479876E+23	1,425968E+23	2,905844E+23
-2888	7,399182E+22	7,399234E+22	7,129796E+22	7,129689E+22	1,479842E+23	1,425949E+23	2,905790E+23
-2887	7,399324E+22	7,399385E+22	7,129854E+22	7,130009E+22	1,479871E+23	1,425986E+23	2,905857E+23
-2886	7,399474E+22	7,399409E+22	7,129787E+22	7,129868E+22	1,479888E+23	1,425965E+23	2,905854E+23
-2885	7,399238E+22	7,399403E+22	7,129899E+22	7,129802E+22	1,479864E+23	1,425970E+23	2,905834E+23
-2884	7,399542E+22	7,399486E+22	7,130005E+22	7,130069E+22	1,479903E+23	1,426007E+23	2,905910E+23
-2883	7,399484E+22	7,399444E+22	7,130014E+22	7,129806E+22	1,479893E+23	1,425982E+23	2,905875E+23
-2882	7,399321E+22	7,399501E+22	7,130084E+22	7,129990E+22	1,479882E+23	1,426007E+23	2,905890E+23
-2881	7,399613E+22	7,399528E+22	7,130009E+22	7,130187E+22	1,479914E+23	1,426020E+23	2,905934E+23
-2880	7,399335E+22	7,399437E+22	7,130004E+22	7,129884E+22	1,479877E+23	1,425989E+23	2,905866E+23
-2879	7,399379E+22	7,399481E+22	7,130049E+22	7,130095E+22	1,479886E+23	1,426014E+23	2,905900E+23
-2878	7,399638E+22	7,399438E+22	7,129915E+22	7,129957E+22	1,479908E+23	1,425987E+23	2,905895E+23
-2877	7,399335E+22	7,399372E+22	7,129928E+22	7,129773E+22	1,479871E+23	1,425970E+23	2,905841E+23
-2876	7,399468E+22	7,399451E+22	7,129924E+22	7,130044E+22	1,479892E+23	1,425997E+23	2,905889E+23
-2875	7,399428E+22	7,399433E+22	7,129822E+22	7,129756E+22	1,479886E+23	1,425958E+23	2,905844E+23
-2874	7,399152E+22	7,399410E+22	7,129880E+22	7,129781E+22	1,479856E+23	1,425966E+23	2,905822E+23
-2873	7,399450E+22	7,399371E+22	7,129847E+22	7,129970E+22	1,479882E+23	1,425982E+23	2,905864E+23
-2872	7,399288E+22	7,399260E+22	7,129864E+22	7,129636E+22	1,479855E+23	1,425950E+23	2,905805E+23
-2871	7,399211E+22	7,399311E+22	7,129916E+22	7,129883E+22	1,479852E+23	1,425980E+23	2,905832E+23
-2870	7,399515E+22	7,399370E+22	7,129785E+22	7,129947E+22	1,479889E+23	1,425973E+23	2,905862E+23
-2869	7,399241E+22	7,399348E+22	7,129825E+22	7,129766E+22	1,479859E+23	1,425959E+23	2,905818E+23
-2868	7,399339E+22	7,399434E+22	7,129925E+22	7,130070E+22	1,479877E+23	1,426000E+23	2,905877E+23
-2867	7,399535E+22	7,399463E+22	7,129911E+22	7,129857E+22	1,479900E+23	1,425977E+23	2,905877E+23
-2866	7,399304E+22	7,399440E+22	7,130053E+22	7,129836E+22	1,479874E+23	1,425989E+23	2,905863E+23
-2865	7,399586E+22	7,399486E+22	7,130069E+22	7,130169E+22	1,479907E+23	1,426024E+23	2,905931E+23
-2864	7,399506E+22	7,399487E+22	7,130057E+22	7,129919E+22	1,479899E+23	1,425998E+23	2,905897E+23
-2863	7,399294E+22	7,399534E+22	7,130120E+22	7,130120E+22	1,479883E+23	1,426024E+23	2,905907E+23
-2862	7,399638E+22	7,399564E+22	7,130014E+22	7,130216E+22	1,479920E+23	1,426023E+23	2,905943E+23
-2861	7,399455E+22	7,399457E+22	7,130044E+22	7,129894E+22	1,479891E+23	1,425994E+23	2,905885E+23
-2860	7,399440E+22	7,399471E+22	7,130092E+22	7,130122E+22	1,479891E+23	1,426021E+23	2,905913E+23
-2859	7,399689E+22	7,399518E+22	7,129961E+22	7,129962E+22	1,479921E+23	1,425992E+23	2,905913E+23
-2858	7,399334E+22	7,399471E+22	7,129987E+22	7,129819E+22	1,479880E+23	1,425981E+23	2,905861E+23
-2857	7,399443E+22	7,399485E+22	7,129948E+22	7,130111E+22	1,479893E+23	1,426006E+23	2,905899E+23
-2856	7,399439E+22	7,399447E+22	7,129894E+22	7,129788E+22	1,479889E+23	1,425968E+23	2,905857E+23
-2855	7,399155E+22	7,399380E+22	7,129976E+22	7,129844E+22	1,479853E+23	1,425982E+23	2,905835E+23
-2854	7,399497E+22	7,399362E+22	7,129887E+22	7,130006E+22	1,479886E+23	1,425989E+23	2,905875E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2853	7,399373E+22	7,399290E+22	7,129883E+22	7,129728E+22	1,479866E+23	1,425961E+23	2,905827E+23
-2852	7,399216E+22	7,399350E+22	7,129912E+22	7,130001E+22	1,479857E+23	1,425991E+23	2,905848E+23
-2851	7,399547E+22	7,399458E+22	7,129810E+22	7,129979E+22	1,479900E+23	1,425979E+23	2,905879E+23
-2850	7,399299E+22	7,399422E+22	7,129923E+22	7,129777E+22	1,479872E+23	1,425970E+23	2,905842E+23
-2849	7,399425E+22	7,399438E+22	7,130010E+22	7,130084E+22	1,479886E+23	1,426009E+23	2,905896E+23
-2848	7,399625E+22	7,399490E+22	7,130025E+22	7,129887E+22	1,479911E+23	1,425991E+23	2,905903E+23
-2847	7,399312E+22	7,399498E+22	7,130155E+22	7,129966E+22	1,479881E+23	1,426012E+23	2,905893E+23
-2846	7,399575E+22	7,399571E+22	7,130097E+22	7,130273E+22	1,479915E+23	1,426037E+23	2,905952E+23
-2845	7,399543E+22	7,399559E+22	7,130096E+22	7,130037E+22	1,479910E+23	1,426013E+23	2,905924E+23
-2844	7,399315E+22	7,399539E+22	7,130169E+22	7,130203E+22	1,479885E+23	1,426037E+23	2,905923E+23
-2843	7,399718E+22	7,399576E+22	7,130075E+22	7,130197E+22	1,479929E+23	1,426027E+23	2,905957E+23
-2842	7,399544E+22	7,399489E+22	7,130124E+22	7,129901E+22	1,479903E+23	1,426003E+23	2,905906E+23
-2841	7,399486E+22	7,399489E+22	7,130095E+22	7,130167E+22	1,479898E+23	1,426026E+23	2,905924E+23
-2840	7,399686E+22	7,399576E+22	7,129982E+22	7,130009E+22	1,479926E+23	1,425999E+23	2,905925E+23
-2839	7,399282E+22	7,399516E+22	7,130042E+22	7,129903E+22	1,479880E+23	1,425994E+23	2,905874E+23
-2838	7,399429E+22	7,399495E+22	7,129986E+22	7,130118E+22	1,479892E+23	1,426010E+23	2,905903E+23
-2837	7,399522E+22	7,399435E+22	7,129955E+22	7,129825E+22	1,479896E+23	1,425978E+23	2,905874E+23
-2836	7,399200E+22	7,399345E+22	7,130019E+22	7,129915E+22	1,479854E+23	1,425993E+23	2,905848E+23
-2835	7,399550E+22	7,399416E+22	7,129910E+22	7,130050E+22	1,479897E+23	1,425996E+23	2,905893E+23
-2834	7,399419E+22	7,399390E+22	7,129926E+22	7,129798E+22	1,479881E+23	1,425972E+23	2,905853E+23
-2833	7,399251E+22	7,399404E+22	7,129937E+22	7,130055E+22	1,479866E+23	1,425999E+23	2,905865E+23
-2832	7,399610E+22	7,399511E+22	7,129911E+22	7,129989E+22	1,479912E+23	1,425990E+23	2,905902E+23
-2831	7,399339E+22	7,399453E+22	7,130065E+22	7,129834E+22	1,479879E+23	1,425990E+23	2,905869E+23
-2830	7,399457E+22	7,399477E+22	7,130102E+22	7,130139E+22	1,479893E+23	1,426024E+23	2,905918E+23
-2829	7,399674E+22	7,399557E+22	7,130081E+22	7,130031E+22	1,479923E+23	1,426011E+23	2,905934E+23
-2828	7,399278E+22	7,399524E+22	7,130181E+22	7,130127E+22	1,479880E+23	1,426031E+23	2,905911E+23
-2827	7,399595E+22	7,399617E+22	7,130127E+22	7,130335E+22	1,479921E+23	1,426046E+23	2,905967E+23
-2826	7,399629E+22	7,399576E+22	7,130160E+22	7,130051E+22	1,479920E+23	1,426021E+23	2,905942E+23
-2825	7,399421E+22	7,399512E+22	7,130194E+22	7,130199E+22	1,479893E+23	1,426039E+23	2,905933E+23
-2824	7,399823E+22	7,399603E+22	7,130129E+22	7,130189E+22	1,479943E+23	1,426032E+23	2,905974E+23
-2823	7,399549E+22	7,399569E+22	7,130179E+22	7,129967E+22	1,479912E+23	1,426015E+23	2,905926E+23
-2822	7,399453E+22	7,399584E+22	7,130119E+22	7,130204E+22	1,479904E+23	1,426032E+23	2,905936E+23
-2821	7,399692E+22	7,399641E+22	7,130032E+22	7,130077E+22	1,479933E+23	1,426011E+23	2,905944E+23
-2820	7,399260E+22	7,399490E+22	7,130122E+22	7,129969E+22	1,479875E+23	1,426009E+23	2,905884E+23
-2819	7,399476E+22	7,399472E+22	7,130066E+22	7,130124E+22	1,479895E+23	1,426019E+23	2,905914E+23
-2818	7,399597E+22	7,399432E+22	7,130030E+22	7,129879E+22	1,479903E+23	1,425991E+23	2,905894E+23
-2817	7,399247E+22	7,399357E+22	7,129998E+22	7,130005E+22	1,479860E+23	1,426000E+23	2,905861E+23
-2816	7,399592E+22	7,399476E+22	7,129914E+22	7,130109E+22	1,479907E+23	1,426002E+23	2,905909E+23
-2815	7,399428E+22	7,399468E+22	7,129980E+22	7,129867E+22	1,479890E+23	1,425985E+23	2,905874E+23
-2814	7,399295E+22	7,399457E+22	7,130005E+22	7,130042E+22	1,479875E+23	1,426005E+23	2,905880E+23
-2813	7,399703E+22	7,399560E+22	7,130012E+22	7,130031E+22	1,479926E+23	1,426004E+23	2,905931E+23
-2812	7,399364E+22	7,399476E+22	7,130169E+22	7,129943E+22	1,479884E+23	1,426011E+23	2,905895E+23
-2811	7,399466E+22	7,399547E+22	7,130166E+22	7,130224E+22	1,479901E+23	1,426039E+23	2,905940E+23
-2810	7,399693E+22	7,399632E+22	7,130154E+22	7,130144E+22	1,479932E+23	1,426030E+23	2,905962E+23
-2809	7,399321E+22	7,399532E+22	7,130201E+22	7,130207E+22	1,479885E+23	1,426041E+23	2,905926E+23
-2808	7,399686E+22	7,399611E+22	7,130196E+22	7,130342E+22	1,479930E+23	1,426054E+23	2,905983E+23
-2807	7,399708E+22	7,399593E+22	7,130249E+22	7,130085E+22	1,479930E+23	1,426033E+23	2,905964E+23
-2806	7,399481E+22	7,399553E+22	7,130231E+22	7,130203E+22	1,479903E+23	1,426043E+23	2,905947E+23
-2805	7,399859E+22	7,399696E+22	7,130148E+22	7,130268E+22	1,479956E+23	1,426042E+23	2,905997E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2804	7,399492E+22	7,399621E+22	7,130212E+22	7,130069E+22	1,479911E+23	1,426028E+23	2,905939E+23
-2803	7,399423E+22	7,399627E+22	7,130171E+22	7,130222E+22	1,479905E+23	1,426039E+23	2,905944E+23
-2802	7,399730E+22	7,399642E+22	7,130126E+22	7,130097E+22	1,479937E+23	1,426022E+23	2,905959E+23
-2801	7,399330E+22	7,399429E+22	7,130157E+22	7,130003E+22	1,479876E+23	1,426016E+23	2,905892E+23
-2800	7,399562E+22	7,399461E+22	7,130108E+22	7,130164E+22	1,479902E+23	1,426027E+23	2,905929E+23
-2799	7,399617E+22	7,399501E+22	7,130057E+22	7,129977E+22	1,479912E+23	1,426003E+23	2,905915E+23
-2798	7,399256E+22	7,399453E+22	7,130001E+22	7,130047E+22	1,479871E+23	1,426005E+23	2,905876E+23
-2797	7,399643E+22	7,399576E+22	7,129959E+22	7,130162E+22	1,479922E+23	1,426012E+23	2,905934E+23
-2796	7,399437E+22	7,399490E+22	7,130084E+22	7,129914E+22	1,479893E+23	1,426000E+23	2,905892E+23
-2795	7,399341E+22	7,399485E+22	7,130128E+22	7,130053E+22	1,479883E+23	1,426018E+23	2,905901E+23
-2794	7,399753E+22	7,399591E+22	7,130128E+22	7,130111E+22	1,479934E+23	1,426024E+23	2,905958E+23
-2793	7,399371E+22	7,399484E+22	7,130191E+22	7,130076E+22	1,479886E+23	1,426027E+23	2,905912E+23
-2792	7,399499E+22	7,399568E+22	7,130204E+22	7,130321E+22	1,479907E+23	1,426052E+23	2,905959E+23
-2791	7,399723E+22	7,399660E+22	7,130210E+22	7,130226E+22	1,479938E+23	1,426044E+23	2,905982E+23
-2790	7,399413E+22	7,399550E+22	7,130236E+22	7,130195E+22	1,479896E+23	1,426043E+23	2,905939E+23
-2789	7,399820E+22	7,399661E+22	7,130238E+22	7,130361E+22	1,479948E+23	1,426060E+23	2,906008E+23
-2788	7,399739E+22	7,399652E+22	7,130308E+22	7,130150E+22	1,479939E+23	1,426046E+23	2,905985E+23
-2787	7,399478E+22	7,399669E+22	7,130283E+22	7,130240E+22	1,479915E+23	1,426052E+23	2,905967E+23
-2786	7,399841E+22	7,399791E+22	7,130237E+22	7,130334E+22	1,479963E+23	1,426057E+23	2,906020E+23
-2785	7,399479E+22	7,399624E+22	7,130268E+22	7,130136E+22	1,479910E+23	1,426040E+23	2,905951E+23
-2784	7,399470E+22	7,399582E+22	7,130265E+22	7,130241E+22	1,479905E+23	1,426051E+23	2,905956E+23
-2783	7,399771E+22	7,399617E+22	7,130210E+22	7,130168E+22	1,479939E+23	1,426038E+23	2,905977E+23
-2782	7,399384E+22	7,399435E+22	7,130155E+22	7,130049E+22	1,479882E+23	1,426020E+23	2,905902E+23
-2781	7,399609E+22	7,399536E+22	7,130072E+22	7,130257E+22	1,479914E+23	1,426033E+23	2,905947E+23
-2780	7,399601E+22	7,399562E+22	7,130067E+22	7,130063E+22	1,479916E+23	1,426013E+23	2,905929E+23
-2779	7,399278E+22	7,399515E+22	7,130052E+22	7,130022E+22	1,479879E+23	1,426007E+23	2,905887E+23
-2778	7,399702E+22	7,399614E+22	7,130083E+22	7,130147E+22	1,479932E+23	1,426023E+23	2,905955E+23
-2777	7,399501E+22	7,399481E+22	7,130166E+22	7,129957E+22	1,479898E+23	1,426012E+23	2,905911E+23
-2776	7,399391E+22	7,399496E+22	7,130223E+22	7,130125E+22	1,479889E+23	1,426035E+23	2,905924E+23
-2775	7,399741E+22	7,399663E+22	7,130201E+22	7,130257E+22	1,479940E+23	1,426046E+23	2,905986E+23
-2774	7,399391E+22	7,399536E+22	7,130214E+22	7,130163E+22	1,479893E+23	1,426038E+23	2,905930E+23
-2773	7,399578E+22	7,399626E+22	7,130235E+22	7,130398E+22	1,479920E+23	1,426063E+23	2,905984E+23
-2772	7,399782E+22	7,399672E+22	7,130290E+22	7,130279E+22	1,479945E+23	1,426057E+23	2,906002E+23
-2771	7,399496E+22	7,399603E+22	7,130316E+22	7,130189E+22	1,479910E+23	1,426051E+23	2,905960E+23
-2770	7,399874E+22	7,399751E+22	7,130324E+22	7,130412E+22	1,479962E+23	1,426074E+23	2,906036E+23
-2769	7,399727E+22	7,399713E+22	7,130326E+22	7,130248E+22	1,479944E+23	1,426057E+23	2,906001E+23
-2768	7,399473E+22	7,399699E+22	7,130348E+22	7,130303E+22	1,479917E+23	1,426065E+23	2,905982E+23
-2767	7,399823E+22	7,399805E+22	7,130323E+22	7,130396E+22	1,479963E+23	1,426072E+23	2,906035E+23
-2766	7,399532E+22	7,399588E+22	7,130315E+22	7,130144E+22	1,479912E+23	1,426046E+23	2,905958E+23
-2765	7,399577E+22	7,399581E+22	7,130281E+22	7,130294E+22	1,479916E+23	1,426058E+23	2,905973E+23
-2764	7,399790E+22	7,399630E+22	7,130222E+22	7,130248E+22	1,479942E+23	1,426047E+23	2,905989E+23
-2763	7,399400E+22	7,399531E+22	7,130155E+22	7,130075E+22	1,479893E+23	1,426023E+23	2,905916E+23
-2762	7,399635E+22	7,399633E+22	7,130122E+22	7,130279E+22	1,479927E+23	1,426040E+23	2,905967E+23
-2761	7,399615E+22	7,399588E+22	7,130120E+22	7,130085E+22	1,479920E+23	1,426020E+23	2,905941E+23
-2760	7,399344E+22	7,399505E+22	7,130184E+22	7,130024E+22	1,479885E+23	1,426021E+23	2,905906E+23
-2759	7,399721E+22	7,399627E+22	7,130215E+22	7,130221E+22	1,479935E+23	1,426044E+23	2,905978E+23
-2758	7,399522E+22	7,399506E+22	7,130211E+22	7,130058E+22	1,479903E+23	1,426027E+23	2,905930E+23
-2757	7,399423E+22	7,399563E+22	7,130217E+22	7,130275E+22	1,479899E+23	1,426049E+23	2,905948E+23
-2756	7,399728E+22	7,399695E+22	7,130231E+22	7,130386E+22	1,479942E+23	1,426062E+23	2,906004E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2755	7,399456E+22	7,399588E+22	7,130258E+22	7,130173E+22	1,479904E+23	1,426043E+23	2,905948E+23
-2754	7,399697E+22	7,399676E+22	7,130326E+22	7,130397E+22	1,479937E+23	1,426072E+23	2,906010E+23
-2753	7,399872E+22	7,399706E+22	7,130348E+22	7,130318E+22	1,479958E+23	1,426067E+23	2,906024E+23
-2752	7,399561E+22	7,399666E+22	7,130406E+22	7,130233E+22	1,479923E+23	1,426064E+23	2,905987E+23
-2751	7,399840E+22	7,399860E+22	7,130418E+22	7,130511E+22	1,479970E+23	1,426093E+23	2,906063E+23
-2750	7,399718E+22	7,399766E+22	7,130380E+22	7,130315E+22	1,479948E+23	1,426070E+23	2,906018E+23
-2749	7,399505E+22	7,399715E+22	7,130396E+22	7,130370E+22	1,479922E+23	1,426077E+23	2,905999E+23
-2748	7,399841E+22	7,399759E+22	7,130403E+22	7,130462E+22	1,479960E+23	1,426086E+23	2,906046E+23
-2747	7,399598E+22	7,399574E+22	7,130346E+22	7,130156E+22	1,479917E+23	1,426050E+23	2,905967E+23
-2746	7,399625E+22	7,399628E+22	7,130292E+22	7,130347E+22	1,479925E+23	1,426064E+23	2,905989E+23
-2745	7,399795E+22	7,399674E+22	7,130186E+22	7,130322E+22	1,479947E+23	1,426051E+23	2,905998E+23
-2744	7,399433E+22	7,399563E+22	7,130194E+22	7,130084E+22	1,479900E+23	1,426028E+23	2,905927E+23
-2743	7,399639E+22	7,399684E+22	7,130219E+22	7,130286E+22	1,479932E+23	1,426051E+23	2,905983E+23
-2742	7,399676E+22	7,399592E+22	7,130192E+22	7,130083E+22	1,479927E+23	1,426028E+23	2,905954E+23
-2741	7,399416E+22	7,399538E+22	7,130240E+22	7,130105E+22	1,479895E+23	1,426034E+23	2,905930E+23
-2740	7,399697E+22	7,399666E+22	7,130280E+22	7,130360E+22	1,479936E+23	1,426064E+23	2,906000E+23
-2739	7,399523E+22	7,399589E+22	7,130246E+22	7,130151E+22	1,479911E+23	1,426040E+23	2,905951E+23
-2738	7,399468E+22	7,399642E+22	7,130279E+22	7,130355E+22	1,479911E+23	1,426063E+23	2,905974E+23
-2737	7,399790E+22	7,399706E+22	7,130282E+22	7,130438E+22	1,479950E+23	1,426072E+23	2,906022E+23
-2736	7,399586E+22	7,399586E+22	7,130371E+22	7,130178E+22	1,479917E+23	1,426055E+23	2,905972E+23
-2735	7,399759E+22	7,399737E+22	7,130440E+22	7,130446E+22	1,479950E+23	1,426089E+23	2,906038E+23
-2734	7,399902E+22	7,399775E+22	7,130388E+22	7,130394E+22	1,479968E+23	1,426078E+23	2,906046E+23
-2733	7,399582E+22	7,399757E+22	7,130426E+22	7,130354E+22	1,479934E+23	1,426078E+23	2,906012E+23
-2732	7,399789E+22	7,399875E+22	7,130483E+22	7,130602E+22	1,479966E+23	1,426108E+23	2,906075E+23
-2731	7,399743E+22	7,399771E+22	7,130440E+22	7,130322E+22	1,479951E+23	1,426076E+23	2,906028E+23
-2730	7,399600E+22	7,399708E+22	7,130461E+22	7,130384E+22	1,479931E+23	1,426084E+23	2,906015E+23
-2729	7,399899E+22	7,399735E+22	7,130407E+22	7,130514E+22	1,479963E+23	1,426092E+23	2,906056E+23
-2728	7,399665E+22	7,399608E+22	7,130367E+22	7,130197E+22	1,479927E+23	1,426056E+23	2,905984E+23
-2727	7,399616E+22	7,399728E+22	7,130327E+22	7,130400E+22	1,479934E+23	1,426073E+23	2,906007E+23
-2726	7,399808E+22	7,399738E+22	7,130210E+22	7,130339E+22	1,479955E+23	1,426055E+23	2,906009E+23
-2725	7,399488E+22	7,399613E+22	7,130251E+22	7,130113E+22	1,479910E+23	1,426036E+23	2,905946E+23
-2724	7,399634E+22	7,399677E+22	7,130339E+22	7,130336E+22	1,479931E+23	1,426068E+23	2,905999E+23
-2723	7,399701E+22	7,399621E+22	7,130271E+22	7,130139E+22	1,479932E+23	1,426041E+23	2,905973E+23
-2722	7,399439E+22	7,399594E+22	7,130290E+22	7,130221E+22	1,479903E+23	1,426051E+23	2,905954E+23
-2721	7,399693E+22	7,399685E+22	7,130282E+22	7,130493E+22	1,479938E+23	1,426077E+23	2,906015E+23
-2720	7,399599E+22	7,399591E+22	7,130301E+22	7,130200E+22	1,479919E+23	1,426050E+23	2,905969E+23
-2719	7,399541E+22	7,399685E+22	7,130371E+22	7,130375E+22	1,479923E+23	1,426075E+23	2,905997E+23
-2718	7,399916E+22	7,399732E+22	7,130342E+22	7,130445E+22	1,479965E+23	1,426079E+23	2,906043E+23
-2717	7,399691E+22	7,399667E+22	7,130416E+22	7,130239E+22	1,479936E+23	1,426066E+23	2,906001E+23
-2716	7,399734E+22	7,399828E+22	7,130523E+22	7,130550E+22	1,479956E+23	1,426107E+23	2,906064E+23
-2715	7,399887E+22	7,399874E+22	7,130447E+22	7,130461E+22	1,479976E+23	1,426091E+23	2,906067E+23
-2714	7,399588E+22	7,399814E+22	7,130514E+22	7,130425E+22	1,479940E+23	1,426094E+23	2,906034E+23
-2713	7,399805E+22	7,399842E+22	7,130548E+22	7,130664E+22	1,479965E+23	1,426121E+23	2,906086E+23
-2712	7,399843E+22	7,399710E+22	7,130523E+22	7,130348E+22	1,479955E+23	1,426087E+23	2,906042E+23
-2711	7,399645E+22	7,399733E+22	7,130508E+22	7,130442E+22	1,479938E+23	1,426095E+23	2,906033E+23
-2710	7,399936E+22	7,399779E+22	7,130368E+22	7,130576E+22	1,479972E+23	1,426094E+23	2,906066E+23
-2709	7,399700E+22	7,399694E+22	7,130330E+22	7,130262E+22	1,479939E+23	1,426059E+23	2,905999E+23
-2708	7,399587E+22	7,399770E+22	7,130384E+22	7,130426E+22	1,479936E+23	1,426081E+23	2,906017E+23
-2707	7,399838E+22	7,399773E+22	7,130288E+22	7,130304E+22	1,479961E+23	1,426059E+23	2,906020E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2706	7,399558E+22	7,399639E+22	7,130356E+22	7,130138E+22	1,479920E+23	1,426049E+23	2,905969E+23
-2705	7,399642E+22	7,399671E+22	7,130397E+22	7,130426E+22	1,479931E+23	1,426082E+23	2,906014E+23
-2704	7,399739E+22	7,399641E+22	7,130338E+22	7,130238E+22	1,479938E+23	1,426058E+23	2,905996E+23
-2703	7,399444E+22	7,399667E+22	7,130351E+22	7,130320E+22	1,479911E+23	1,426067E+23	2,905978E+23
-2702	7,399749E+22	7,399708E+22	7,130308E+22	7,130547E+22	1,479946E+23	1,426086E+23	2,906031E+23
-2701	7,399722E+22	7,399633E+22	7,130347E+22	7,130244E+22	1,479936E+23	1,426059E+23	2,905995E+23
-2700	7,399600E+22	7,399700E+22	7,130475E+22	7,130413E+22	1,479930E+23	1,426089E+23	2,906019E+23
-2699	7,399959E+22	7,399813E+22	7,130410E+22	7,130485E+22	1,479977E+23	1,426089E+23	2,906067E+23
-2698	7,399714E+22	7,399783E+22	7,130478E+22	7,130344E+22	1,479950E+23	1,426082E+23	2,906032E+23
-2697	7,399687E+22	7,399868E+22	7,130564E+22	7,130664E+22	1,479955E+23	1,426123E+23	2,906078E+23
-2696	7,399925E+22	7,399867E+22	7,130537E+22	7,130514E+22	1,479979E+23	1,426105E+23	2,906084E+23
-2695	7,399639E+22	7,399813E+22	7,130608E+22	7,130456E+22	1,479945E+23	1,426106E+23	2,906052E+23
-2694	7,399905E+22	7,399810E+22	7,130573E+22	7,130694E+22	1,479972E+23	1,426127E+23	2,906098E+23
-2693	7,399944E+22	7,399759E+22	7,130510E+22	7,130413E+22	1,479970E+23	1,426092E+23	2,906063E+23
-2692	7,399634E+22	7,399809E+22	7,130532E+22	7,130510E+22	1,479944E+23	1,426104E+23	2,906049E+23
-2691	7,399934E+22	7,399886E+22	7,130390E+22	7,130590E+22	1,479982E+23	1,426098E+23	2,906080E+23
-2690	7,399725E+22	7,399777E+22	7,130408E+22	7,130274E+22	1,479950E+23	1,426068E+23	2,906018E+23
-2689	7,399589E+22	7,399755E+22	7,130481E+22	7,130448E+22	1,479934E+23	1,426093E+23	2,906027E+23
-2688	7,399905E+22	7,399730E+22	7,130412E+22	7,130333E+22	1,479964E+23	1,426074E+23	2,906038E+23
-2687	7,399561E+22	7,399665E+22	7,130444E+22	7,130234E+22	1,479923E+23	1,426068E+23	2,905990E+23
-2686	7,399659E+22	7,399687E+22	7,130389E+22	7,130547E+22	1,479935E+23	1,426094E+23	2,906028E+23
-2685	7,399786E+22	7,399680E+22	7,130313E+22	7,130341E+22	1,479947E+23	1,426065E+23	2,906012E+23
-2684	7,399463E+22	7,399690E+22	7,130401E+22	7,130368E+22	1,479915E+23	1,426077E+23	2,905992E+23
-2683	7,399843E+22	7,399750E+22	7,130359E+22	7,130524E+22	1,479959E+23	1,426088E+23	2,906048E+23
-2682	7,399829E+22	7,399710E+22	7,130426E+22	7,130267E+22	1,479954E+23	1,426069E+23	2,906023E+23
-2681	7,399617E+22	7,399765E+22	7,130545E+22	7,130493E+22	1,479938E+23	1,426104E+23	2,906042E+23
-2680	7,399982E+22	7,399882E+22	7,130508E+22	7,130569E+22	1,479986E+23	1,426108E+23	2,906094E+23
-2679	7,399690E+22	7,399873E+22	7,130591E+22	7,130440E+22	1,479956E+23	1,426103E+23	2,906059E+23
-2678	7,399716E+22	7,399868E+22	7,130627E+22	7,130732E+22	1,479958E+23	1,426136E+23	2,906094E+23
-2677	7,400020E+22	7,399858E+22	7,130591E+22	7,130575E+22	1,479988E+23	1,426117E+23	2,906104E+23
-2676	7,399692E+22	7,399795E+22	7,130682E+22	7,130519E+22	1,479949E+23	1,426120E+23	2,906069E+23
-2675	7,399955E+22	7,399861E+22	7,130577E+22	7,130735E+22	1,479982E+23	1,426131E+23	2,906113E+23
-2674	7,399982E+22	7,399867E+22	7,130509E+22	7,130483E+22	1,479985E+23	1,426099E+23	2,906084E+23
-2673	7,399613E+22	7,399851E+22	7,130551E+22	7,130552E+22	1,479946E+23	1,426110E+23	2,906057E+23
-2672	7,399976E+22	7,399894E+22	7,130486E+22	7,130573E+22	1,479987E+23	1,426106E+23	2,906093E+23
-2671	7,399762E+22	7,399803E+22	7,130532E+22	7,130275E+22	1,479957E+23	1,426081E+23	2,906037E+23
-2670	7,399632E+22	7,399730E+22	7,130534E+22	7,130493E+22	1,479936E+23	1,426103E+23	2,906039E+23
-2669	7,399946E+22	7,399770E+22	7,130426E+22	7,130442E+22	1,479972E+23	1,426087E+23	2,906058E+23
-2668	7,399534E+22	7,399702E+22	7,130476E+22	7,130349E+22	1,479924E+23	1,426082E+23	2,906006E+23
-2667	7,399667E+22	7,399745E+22	7,130398E+22	7,130598E+22	1,479941E+23	1,426100E+23	2,906041E+23
-2666	7,399861E+22	7,399752E+22	7,130364E+22	7,130378E+22	1,479961E+23	1,426074E+23	2,906035E+23
-2665	7,399521E+22	7,399691E+22	7,130480E+22	7,130387E+22	1,479921E+23	1,426087E+23	2,906008E+23
-2664	7,399942E+22	7,399770E+22	7,130475E+22	7,130543E+22	1,479971E+23	1,426102E+23	2,906073E+23
-2663	7,399846E+22	7,399810E+22	7,130528E+22	7,130348E+22	1,479966E+23	1,426088E+23	2,906053E+23
-2662	7,399614E+22	7,399821E+22	7,130581E+22	7,130608E+22	1,479944E+23	1,426119E+23	2,906062E+23
-2661	7,400005E+22	7,399934E+22	7,130549E+22	7,130673E+22	1,479994E+23	1,426122E+23	2,906116E+23
-2660	7,399702E+22	7,399867E+22	7,130691E+22	7,130509E+22	1,479957E+23	1,426120E+23	2,906077E+23
-2659	7,399801E+22	7,399867E+22	7,130687E+22	7,130748E+22	1,479967E+23	1,426143E+23	2,906110E+23
-2658	7,400130E+22	7,399907E+22	7,130634E+22	7,130626E+22	1,480004E+23	1,426126E+23	2,906130E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2657	7,399721E+22	7,399844E+22	7,130703E+22	7,130593E+22	1,479957E+23	1,426130E+23	2,906086E+23
-2656	7,399999E+22	7,399934E+22	7,130623E+22	7,130776E+22	1,479993E+23	1,426140E+23	2,906133E+23
-2655	7,399967E+22	7,399972E+22	7,130593E+22	7,130513E+22	1,479994E+23	1,426111E+23	2,906105E+23
-2654	7,399638E+22	7,399864E+22	7,130618E+22	7,130573E+22	1,479950E+23	1,426119E+23	2,906069E+23
-2653	7,400031E+22	7,399882E+22	7,130557E+22	7,130597E+22	1,479991E+23	1,426115E+23	2,906107E+23
-2652	7,399754E+22	7,399782E+22	7,130624E+22	7,130354E+22	1,479954E+23	1,426098E+23	2,906051E+23
-2651	7,399631E+22	7,399758E+22	7,130535E+22	7,130578E+22	1,479939E+23	1,426111E+23	2,906050E+23
-2650	7,399954E+22	7,399836E+22	7,130410E+22	7,130552E+22	1,479979E+23	1,426096E+23	2,906075E+23
-2649	7,399534E+22	7,399712E+22	7,130481E+22	7,130415E+22	1,479925E+23	1,426090E+23	2,906014E+23
-2648	7,399766E+22	7,399743E+22	7,130463E+22	7,130580E+22	1,479951E+23	1,426104E+23	2,906055E+23
-2647	7,399949E+22	7,399808E+22	7,130470E+22	7,130366E+22	1,479976E+23	1,426084E+23	2,906059E+23
-2646	7,399608E+22	7,399727E+22	7,130542E+22	7,130425E+22	1,479933E+23	1,426097E+23	2,906030E+23
-2645	7,399982E+22	7,399865E+22	7,130535E+22	7,130629E+22	1,479985E+23	1,426116E+23	2,906101E+23
-2644	7,399810E+22	7,399896E+22	7,130634E+22	7,130474E+22	1,479971E+23	1,426111E+23	2,906081E+23
-2643	7,399608E+22	7,399881E+22	7,130655E+22	7,130687E+22	1,479949E+23	1,426134E+23	2,906083E+23
-2642	7,400063E+22	7,399979E+22	7,130634E+22	7,130752E+22	1,480004E+23	1,426139E+23	2,906143E+23
-2641	7,399769E+22	7,399829E+22	7,130772E+22	7,130576E+22	1,479960E+23	1,426135E+23	2,906095E+23
-2640	7,399909E+22	7,399865E+22	7,130755E+22	7,130798E+22	1,479977E+23	1,426155E+23	2,906133E+23
-2639	7,400167E+22	7,400010E+22	7,130678E+22	7,130702E+22	1,480018E+23	1,426138E+23	2,906156E+23
-2638	7,399740E+22	7,399903E+22	7,130687E+22	7,130658E+22	1,479964E+23	1,426134E+23	2,906099E+23
-2637	7,400025E+22	7,399994E+22	7,130649E+22	7,130800E+22	1,480002E+23	1,426145E+23	2,906147E+23
-2636	7,399971E+22	7,399981E+22	7,130689E+22	7,130524E+22	1,479995E+23	1,426121E+23	2,906117E+23
-2635	7,399671E+22	7,399859E+22	7,130680E+22	7,130572E+22	1,479953E+23	1,426125E+23	2,906078E+23
-2634	7,400067E+22	7,399927E+22	7,130598E+22	7,130669E+22	1,479999E+23	1,426127E+23	2,906126E+23
-2633	7,399736E+22	7,399790E+22	7,130644E+22	7,130460E+22	1,479953E+23	1,426110E+23	2,906063E+23
-2632	7,399662E+22	7,399787E+22	7,130563E+22	7,130643E+22	1,479945E+23	1,426121E+23	2,906065E+23
-2631	7,399976E+22	7,399904E+22	7,130473E+22	7,130584E+22	1,479988E+23	1,426106E+23	2,906094E+23
-2630	7,399615E+22	7,399715E+22	7,130523E+22	7,130425E+22	1,479933E+23	1,426095E+23	2,906028E+23
-2629	7,399874E+22	7,399767E+22	7,130535E+22	7,130586E+22	1,479964E+23	1,426112E+23	2,906076E+23
-2628	7,399973E+22	7,399857E+22	7,130578E+22	7,130440E+22	1,479983E+23	1,426102E+23	2,906085E+23
-2627	7,399605E+22	7,399815E+22	7,130590E+22	7,130523E+22	1,479942E+23	1,426111E+23	2,906053E+23
-2626	7,399971E+22	7,399970E+22	7,130581E+22	7,130754E+22	1,479994E+23	1,426133E+23	2,906128E+23
-2625	7,399799E+22	7,399901E+22	7,130711E+22	7,130580E+22	1,479970E+23	1,426129E+23	2,906099E+23
-2624	7,399707E+22	7,399861E+22	7,130750E+22	7,130724E+22	1,479957E+23	1,426147E+23	2,906104E+23
-2623	7,400150E+22	7,400007E+22	7,130730E+22	7,130788E+22	1,480016E+23	1,426152E+23	2,906168E+23
-2622	7,399872E+22	7,399855E+22	7,130785E+22	7,130648E+22	1,479973E+23	1,426143E+23	2,906116E+23
-2621	7,399978E+22	7,399949E+22	7,130755E+22	7,130858E+22	1,479993E+23	1,426161E+23	2,906154E+23
-2620	7,400144E+22	7,400103E+22	7,130739E+22	7,130770E+22	1,480025E+23	1,426151E+23	2,906176E+23
-2619	7,399743E+22	7,399975E+22	7,130740E+22	7,130672E+22	1,479972E+23	1,426141E+23	2,906113E+23
-2618	7,400050E+22	7,400041E+22	7,130731E+22	7,130817E+22	1,480009E+23	1,426155E+23	2,906164E+23
-2617	7,399985E+22	7,399936E+22	7,130784E+22	7,130578E+22	1,479992E+23	1,426136E+23	2,906128E+23
-2616	7,399719E+22	7,399831E+22	7,130739E+22	7,130634E+22	1,479955E+23	1,426137E+23	2,906092E+23
-2615	7,400056E+22	7,399980E+22	7,130628E+22	7,130760E+22	1,480004E+23	1,426139E+23	2,906142E+23
-2614	7,399764E+22	7,399796E+22	7,130610E+22	7,130543E+22	1,479956E+23	1,426115E+23	2,906071E+23
-2613	7,399733E+22	7,399807E+22	7,130568E+22	7,130654E+22	1,479954E+23	1,426122E+23	2,906076E+23
-2612	7,400034E+22	7,399927E+22	7,130558E+22	7,130588E+22	1,479996E+23	1,426115E+23	2,906111E+23
-2611	7,399696E+22	7,399763E+22	7,130582E+22	7,130420E+22	1,479946E+23	1,426100E+23	2,906046E+23
-2610	7,399917E+22	7,399884E+22	7,130599E+22	7,130655E+22	1,479980E+23	1,426125E+23	2,906106E+23
-2609	7,399948E+22	7,399926E+22	7,130654E+22	7,130566E+22	1,479987E+23	1,426122E+23	2,906109E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2608	7,399613E+22	7,399869E+22	7,130684E+22	7,130625E+22	1,479948E+23	1,426131E+23	2,906079E+23
-2607	7,399978E+22	7,400034E+22	7,130701E+22	7,130834E+22	1,480001E+23	1,426154E+23	2,906155E+23
-2606	7,399887E+22	7,399862E+22	7,130771E+22	7,130646E+22	1,479975E+23	1,426142E+23	2,906117E+23
-2605	7,399832E+22	7,399849E+22	7,130805E+22	7,130770E+22	1,479968E+23	1,426158E+23	2,906126E+23
-2604	7,400203E+22	7,400048E+22	7,130788E+22	7,130874E+22	1,480025E+23	1,426166E+23	2,906191E+23
-2603	7,399897E+22	7,399947E+22	7,130774E+22	7,130713E+22	1,479984E+23	1,426149E+23	2,906133E+23
-2602	7,399991E+22	7,400073E+22	7,130768E+22	7,130914E+22	1,480006E+23	1,426168E+23	2,906175E+23
-2601	7,400142E+22	7,400116E+22	7,130815E+22	7,130802E+22	1,480026E+23	1,426162E+23	2,906188E+23
-2600	7,399810E+22	7,399962E+22	7,130845E+22	7,130664E+22	1,479977E+23	1,426151E+23	2,906128E+23
-2599	7,400080E+22	7,400065E+22	7,130839E+22	7,130837E+22	1,480015E+23	1,426168E+23	2,906182E+23
-2598	7,400023E+22	7,399927E+22	7,130798E+22	7,130668E+22	1,479995E+23	1,426147E+23	2,906142E+23
-2597	7,399755E+22	7,399866E+22	7,130738E+22	7,130715E+22	1,479962E+23	1,426145E+23	2,906107E+23
-2596	7,400043E+22	7,400025E+22	7,130668E+22	7,130840E+22	1,480007E+23	1,426151E+23	2,906158E+23
-2595	7,399805E+22	7,399842E+22	7,130628E+22	7,130558E+22	1,479965E+23	1,426119E+23	2,906083E+23
-2594	7,399811E+22	7,399869E+22	7,130620E+22	7,130657E+22	1,479968E+23	1,426128E+23	2,906096E+23
-2593	7,400075E+22	7,399933E+22	7,130653E+22	7,130636E+22	1,480001E+23	1,426129E+23	2,906130E+23
-2592	7,399744E+22	7,399816E+22	7,130664E+22	7,130494E+22	1,479956E+23	1,426116E+23	2,906072E+23
-2591	7,399874E+22	7,399985E+22	7,130681E+22	7,130753E+22	1,479986E+23	1,426143E+23	2,906129E+23
-2590	7,399953E+22	7,399940E+22	7,130686E+22	7,130686E+22	1,479989E+23	1,426137E+23	2,906127E+23
-2589	7,399689E+22	7,399848E+22	7,130741E+22	7,130672E+22	1,479954E+23	1,426141E+23	2,906095E+23
-2588	7,400045E+22	7,400013E+22	7,130799E+22	7,130882E+22	1,480006E+23	1,426168E+23	2,906174E+23
-2587	7,399998E+22	7,399889E+22	7,130800E+22	7,130684E+22	1,479989E+23	1,426148E+23	2,906137E+23
-2586	7,399914E+22	7,399965E+22	7,130815E+22	7,130838E+22	1,479988E+23	1,426165E+23	2,906153E+23
-2585	7,400211E+22	7,400131E+22	7,130837E+22	7,130965E+22	1,480034E+23	1,426180E+23	2,906214E+23
-2584	7,399928E+22	7,400034E+22	7,130851E+22	7,130752E+22	1,479996E+23	1,426160E+23	2,906156E+23
-2583	7,399986E+22	7,400155E+22	7,130900E+22	7,130923E+22	1,480014E+23	1,426182E+23	2,906196E+23
-2582	7,400198E+22	7,400084E+22	7,130898E+22	7,130847E+22	1,480028E+23	1,426175E+23	2,906203E+23
-2581	7,399882E+22	7,399926E+22	7,130921E+22	7,130717E+22	1,479981E+23	1,426164E+23	2,906145E+23
-2580	7,400069E+22	7,400078E+22	7,130893E+22	7,130952E+22	1,480015E+23	1,426184E+23	2,906199E+23
-2579	7,400024E+22	7,399971E+22	7,130760E+22	7,130759E+22	1,480000E+23	1,426152E+23	2,906151E+23
-2578	7,399784E+22	7,399946E+22	7,130708E+22	7,130772E+22	1,479973E+23	1,426148E+23	2,906121E+23
-2577	7,400081E+22	7,400020E+22	7,130712E+22	7,130859E+22	1,480010E+23	1,426157E+23	2,906167E+23
-2576	7,399902E+22	7,399861E+22	7,130701E+22	7,130530E+22	1,479976E+23	1,426123E+23	2,906099E+23
-2575	7,399858E+22	7,399951E+22	7,130730E+22	7,130658E+22	1,479981E+23	1,426139E+23	2,906120E+23
-2574	7,400104E+22	7,399967E+22	7,130694E+22	7,130717E+22	1,480007E+23	1,426141E+23	2,906148E+23
-2573	7,399757E+22	7,399864E+22	7,130729E+22	7,130585E+22	1,479962E+23	1,426131E+23	2,906093E+23
-2572	7,399843E+22	7,400025E+22	7,130784E+22	7,130859E+22	1,479987E+23	1,426164E+23	2,906151E+23
-2571	7,399990E+22	7,399948E+22	7,130741E+22	7,130745E+22	1,479994E+23	1,426149E+23	2,906142E+23
-2570	7,399793E+22	7,399880E+22	7,130792E+22	7,130724E+22	1,479967E+23	1,426152E+23	2,906119E+23
-2569	7,400124E+22	7,400000E+22	7,130867E+22	7,130966E+22	1,480012E+23	1,426183E+23	2,906196E+23
-2568	7,400072E+22	7,399968E+22	7,130834E+22	7,130756E+22	1,480004E+23	1,426159E+23	2,906163E+23
-2567	7,399918E+22	7,400104E+22	7,130876E+22	7,130894E+22	1,480002E+23	1,426177E+23	2,906179E+23
-2566	7,400233E+22	7,400174E+22	7,130880E+22	7,131027E+22	1,480041E+23	1,426191E+23	2,906231E+23
-2565	7,399994E+22	7,400043E+22	7,130952E+22	7,130764E+22	1,480004E+23	1,426172E+23	2,906175E+23
-2564	7,400007E+22	7,400154E+22	7,131029E+22	7,130965E+22	1,480016E+23	1,426199E+23	2,906215E+23
-2563	7,400239E+22	7,400099E+22	7,130934E+22	7,130914E+22	1,480034E+23	1,426185E+23	2,906219E+23
-2562	7,399918E+22	7,400000E+22	7,130911E+22	7,130815E+22	1,479992E+23	1,426173E+23	2,906164E+23
-2561	7,400057E+22	7,400098E+22	7,130914E+22	7,131060E+22	1,480015E+23	1,426197E+23	2,906213E+23
-2560	7,400067E+22	7,400024E+22	7,130789E+22	7,130790E+22	1,480009E+23	1,426158E+23	2,906167E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2559	7,399819E+22	7,400007E+22	7,130792E+22	7,130738E+22	1,479983E+23	1,426153E+23	2,906136E+23
-2558	7,400161E+22	7,400000E+22	7,130772E+22	7,130864E+22	1,480016E+23	1,426164E+23	2,906180E+23
-2557	7,399984E+22	7,399860E+22	7,130780E+22	7,130551E+22	1,479984E+23	1,426133E+23	2,906117E+23
-2556	7,399815E+22	7,400003E+22	7,130813E+22	7,130757E+22	1,479982E+23	1,426157E+23	2,906139E+23
-2555	7,400075E+22	7,400026E+22	7,130705E+22	7,130823E+22	1,480010E+23	1,426153E+23	2,906163E+23
-2554	7,399779E+22	7,399917E+22	7,130749E+22	7,130670E+22	1,479970E+23	1,426142E+23	2,906112E+23
-2553	7,399889E+22	7,399985E+22	7,130867E+22	7,130927E+22	1,479987E+23	1,426179E+23	2,906167E+23
-2552	7,400108E+22	7,399958E+22	7,130808E+22	7,130770E+22	1,480007E+23	1,426158E+23	2,906164E+23
-2551	7,399873E+22	7,399976E+22	7,130871E+22	7,130756E+22	1,479985E+23	1,426163E+23	2,906148E+23
-2550	7,400188E+22	7,400074E+22	7,130887E+22	7,131059E+22	1,480026E+23	1,426195E+23	2,906221E+23
-2549	7,400121E+22	7,400058E+22	7,130904E+22	7,130820E+22	1,480018E+23	1,426172E+23	2,906190E+23
-2548	7,399897E+22	7,400191E+22	7,131006E+22	7,130963E+22	1,480009E+23	1,426197E+23	2,906206E+23
-2547	7,400260E+22	7,400205E+22	7,130967E+22	7,131061E+22	1,480046E+23	1,426203E+23	2,906249E+23
-2546	7,400063E+22	7,400069E+22	7,131032E+22	7,130826E+22	1,480013E+23	1,426186E+23	2,906199E+23
-2545	7,400028E+22	7,400119E+22	7,131108E+22	7,131078E+22	1,480015E+23	1,426219E+23	2,906233E+23
-2544	7,400254E+22	7,400138E+22	7,130939E+22	7,131008E+22	1,480039E+23	1,426195E+23	2,906234E+23
-2543	7,399920E+22	7,400084E+22	7,130926E+22	7,130869E+22	1,480000E+23	1,426179E+23	2,906180E+23
-2542	7,400110E+22	7,400080E+22	7,130898E+22	7,131086E+22	1,480019E+23	1,426198E+23	2,906217E+23
-2541	7,400164E+22	7,400007E+22	7,130846E+22	7,130746E+22	1,480017E+23	1,426159E+23	2,906176E+23
-2540	7,399864E+22	7,400034E+22	7,130896E+22	7,130731E+22	1,479990E+23	1,426163E+23	2,906153E+23
-2539	7,400184E+22	7,400050E+22	7,130809E+22	7,130893E+22	1,480023E+23	1,426170E+23	2,906194E+23
-2538	7,399988E+22	7,399970E+22	7,130806E+22	7,130649E+22	1,479996E+23	1,426145E+23	2,906141E+23
-2537	7,399769E+22	7,400025E+22	7,130888E+22	7,130887E+22	1,479979E+23	1,426178E+23	2,906157E+23
-2536	7,400079E+22	7,400066E+22	7,130772E+22	7,130895E+22	1,480015E+23	1,426167E+23	2,906181E+23
-2535	7,399833E+22	7,399956E+22	7,130851E+22	7,130698E+22	1,479979E+23	1,426155E+23	2,906134E+23
-2534	7,400001E+22	7,399945E+22	7,130916E+22	7,130991E+22	1,479995E+23	1,426191E+23	2,906185E+23
-2533	7,400222E+22	7,399981E+22	7,130872E+22	7,130829E+22	1,480020E+23	1,426170E+23	2,906190E+23
-2532	7,399880E+22	7,400081E+22	7,130940E+22	7,130852E+22	1,479996E+23	1,426179E+23	2,906175E+23
-2531	7,400193E+22	7,400175E+22	7,130910E+22	7,131132E+22	1,480037E+23	1,426204E+23	2,906241E+23
-2530	7,400166E+22	7,400149E+22	7,130961E+22	7,130874E+22	1,480032E+23	1,426183E+23	2,906215E+23
-2529	7,399924E+22	7,400168E+22	7,131136E+22	7,131023E+22	1,480009E+23	1,426216E+23	2,906225E+23
-2528	7,400325E+22	7,400223E+22	7,131058E+22	7,131104E+22	1,480055E+23	1,426216E+23	2,906271E+23
-2527	7,400102E+22	7,400125E+22	7,131102E+22	7,130881E+22	1,480023E+23	1,426198E+23	2,906221E+23
-2526	7,400062E+22	7,400125E+22	7,131100E+22	7,131185E+22	1,480019E+23	1,426228E+23	2,906247E+23
-2525	7,400308E+22	7,400161E+22	7,130965E+22	7,131054E+22	1,480047E+23	1,426202E+23	2,906249E+23
-2524	7,399923E+22	7,400132E+22	7,130995E+22	7,130886E+22	1,480006E+23	1,426188E+23	2,906194E+23
-2523	7,400164E+22	7,400106E+22	7,130931E+22	7,131068E+22	1,480027E+23	1,426200E+23	2,906227E+23
-2522	7,400241E+22	7,400057E+22	7,130889E+22	7,130762E+22	1,480030E+23	1,426165E+23	2,906195E+23
-2521	7,399856E+22	7,400042E+22	7,130978E+22	7,130827E+22	1,479990E+23	1,426180E+23	2,906170E+23
-2520	7,400146E+22	7,400132E+22	7,130839E+22	7,130984E+22	1,480028E+23	1,426182E+23	2,906210E+23
-2519	7,399958E+22	7,400049E+22	7,130867E+22	7,130726E+22	1,480001E+23	1,426159E+23	2,906160E+23
-2518	7,399809E+22	7,399986E+22	7,130922E+22	7,130964E+22	1,479979E+23	1,426189E+23	2,906168E+23
-2517	7,400194E+22	7,400022E+22	7,130855E+22	7,130909E+22	1,480022E+23	1,426176E+23	2,906198E+23
-2516	7,399914E+22	7,399988E+22	7,130943E+22	7,130741E+22	1,479990E+23	1,426168E+23	2,906159E+23
-2515	7,400079E+22	7,400020E+22	7,130925E+22	7,131048E+22	1,480010E+23	1,426197E+23	2,906207E+23
-2514	7,400277E+22	7,400129E+22	7,130893E+22	7,130919E+22	1,480041E+23	1,426181E+23	2,906222E+23
-2513	7,399875E+22	7,400153E+22	7,131049E+22	7,130958E+22	1,480003E+23	1,426201E+23	2,906204E+23
-2512	7,400192E+22	7,400254E+22	7,131018E+22	7,131167E+22	1,480045E+23	1,426219E+23	2,906263E+23
-2511	7,400209E+22	7,400198E+22	7,131107E+22	7,130906E+22	1,480041E+23	1,426201E+23	2,906242E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2510	7,400000E+22	7,400102E+22	7,131206E+22	7,131112E+22	1,480010E+23	1,426232E+23	2,906242E+23
-2509	7,400383E+22	7,400203E+22	7,131110E+22	7,131189E+22	1,480059E+23	1,426230E+23	2,906288E+23
-2508	7,400095E+22	7,400186E+22	7,131125E+22	7,130990E+22	1,480028E+23	1,426212E+23	2,906240E+23
-2507	7,400086E+22	7,400167E+22	7,131056E+22	7,131234E+22	1,480025E+23	1,426229E+23	2,906254E+23
-2506	7,400379E+22	7,400224E+22	7,130962E+22	7,131059E+22	1,480060E+23	1,426202E+23	2,906262E+23
-2505	7,399976E+22	7,400122E+22	7,131079E+22	7,130892E+22	1,480010E+23	1,426197E+23	2,906207E+23
-2504	7,400198E+22	7,400168E+22	7,130994E+22	7,131058E+22	1,480037E+23	1,426205E+23	2,906242E+23
-2503	7,400246E+22	7,400161E+22	7,130967E+22	7,130806E+22	1,480041E+23	1,426177E+23	2,906218E+23
-2502	7,399844E+22	7,400056E+22	7,131009E+22	7,130945E+22	1,479990E+23	1,426195E+23	2,906185E+23
-2501	7,400154E+22	7,400138E+22	7,130917E+22	7,131058E+22	1,480029E+23	1,426197E+23	2,906227E+23
-2500	7,399964E+22	7,400066E+22	7,130968E+22	7,130786E+22	1,480003E+23	1,426175E+23	2,906178E+23
-2499	7,399899E+22	7,399969E+22	7,130957E+22	7,130997E+22	1,479987E+23	1,426195E+23	2,906182E+23
-2498	7,400319E+22	7,400061E+22	7,130885E+22	7,130966E+22	1,480038E+23	1,426185E+23	2,906223E+23
-2497	7,399951E+22	7,400028E+22	7,131004E+22	7,130850E+22	1,479998E+23	1,426185E+23	2,906183E+23
-2496	7,400082E+22	7,400156E+22	7,130954E+22	7,131118E+22	1,480024E+23	1,426207E+23	2,906231E+23
-2495	7,400289E+22	7,400245E+22	7,130974E+22	7,130963E+22	1,480053E+23	1,426194E+23	2,906247E+23
-2494	7,399920E+22	7,400135E+22	7,131134E+22	7,131022E+22	1,480005E+23	1,426216E+23	2,906221E+23
-2493	7,400277E+22	7,400227E+22	7,131147E+22	7,131190E+22	1,480050E+23	1,426234E+23	2,906284E+23
-2492	7,400247E+22	7,400223E+22	7,131215E+22	7,130984E+22	1,480047E+23	1,426220E+23	2,906267E+23
-2491	7,400047E+22	7,400144E+22	7,131199E+22	7,131211E+22	1,480019E+23	1,426241E+23	2,906260E+23
-2490	7,400433E+22	7,400293E+22	7,131089E+22	7,131288E+22	1,480073E+23	1,426238E+23	2,906310E+23
-2489	7,400106E+22	7,400223E+22	7,131173E+22	7,131071E+22	1,480033E+23	1,426224E+23	2,906257E+23
-2488	7,400117E+22	7,400244E+22	7,131100E+22	7,131214E+22	1,480036E+23	1,426231E+23	2,906267E+23
-2487	7,400444E+22	7,400284E+22	7,131064E+22	7,131032E+22	1,480073E+23	1,426210E+23	2,906282E+23
-2486	7,400031E+22	7,400096E+22	7,131147E+22	7,130948E+22	1,480013E+23	1,426210E+23	2,906222E+23
-2485	7,400202E+22	7,400183E+22	7,131069E+22	7,131117E+22	1,480039E+23	1,426219E+23	2,906257E+23
-2484	7,400192E+22	7,400223E+22	7,131030E+22	7,130917E+22	1,480042E+23	1,426195E+23	2,906236E+23
-2483	7,399853E+22	7,400054E+22	7,131004E+22	7,131019E+22	1,479991E+23	1,426202E+23	2,906193E+23
-2482	7,400231E+22	7,400142E+22	7,130939E+22	7,131100E+22	1,480037E+23	1,426204E+23	2,906241E+23
-2481	7,400053E+22	7,400034E+22	7,131046E+22	7,130841E+22	1,480009E+23	1,426189E+23	2,906197E+23
-2480	7,399971E+22	7,400040E+22	7,130982E+22	7,131009E+22	1,480001E+23	1,426199E+23	2,906200E+23
-2479	7,400369E+22	7,400199E+22	7,130939E+22	7,131017E+22	1,480057E+23	1,426196E+23	2,906252E+23
-2478	7,399980E+22	7,400087E+22	7,131047E+22	7,130951E+22	1,480007E+23	1,426200E+23	2,906207E+23
-2477	7,400091E+22	7,400208E+22	7,131072E+22	7,131159E+22	1,480030E+23	1,426223E+23	2,906253E+23
-2476	7,400292E+22	7,400302E+22	7,131124E+22	7,131026E+22	1,480059E+23	1,426215E+23	2,906274E+23
-2475	7,399993E+22	7,400111E+22	7,131209E+22	7,131088E+22	1,480010E+23	1,426230E+23	2,906240E+23
-2474	7,400359E+22	7,400246E+22	7,131191E+22	7,131291E+22	1,480061E+23	1,426248E+23	2,906309E+23
-2473	7,400266E+22	7,400239E+22	7,131256E+22	7,131133E+22	1,480051E+23	1,426239E+23	2,906289E+23
-2472	7,400051E+22	7,400244E+22	7,131178E+22	7,131280E+22	1,480029E+23	1,426246E+23	2,906275E+23
-2471	7,400480E+22	7,400382E+22	7,131127E+22	7,131305E+22	1,480086E+23	1,426243E+23	2,906329E+23
-2470	7,400186E+22	7,400202E+22	7,131222E+22	7,131079E+22	1,480039E+23	1,426230E+23	2,906269E+23
-2469	7,400205E+22	7,400240E+22	7,131209E+22	7,131174E+22	1,480045E+23	1,426238E+23	2,906283E+23
-2468	7,400461E+22	7,400346E+22	7,131167E+22	7,131065E+22	1,480081E+23	1,426223E+23	2,906304E+23
-2467	7,400038E+22	7,400141E+22	7,131166E+22	7,131035E+22	1,480018E+23	1,426220E+23	2,906238E+23
-2466	7,400201E+22	7,400248E+22	7,131090E+22	7,131220E+22	1,480045E+23	1,426231E+23	2,906276E+23
-2465	7,400167E+22	7,400214E+22	7,131105E+22	7,131024E+22	1,480038E+23	1,426213E+23	2,906251E+23
-2464	7,399886E+22	7,400086E+22	7,131041E+22	7,131036E+22	1,479997E+23	1,426208E+23	2,906205E+23
-2463	7,400334E+22	7,400161E+22	7,131003E+22	7,131109E+22	1,480049E+23	1,426211E+23	2,906261E+23
-2462	7,400135E+22	7,400018E+22	7,131070E+22	7,130918E+22	1,480015E+23	1,426199E+23	2,906214E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2461	7,40013E+22	7,400108E+22	7,131033E+22	7,131059E+22	1,480012E+23	1,426209E+23	2,906221E+23
-2460	7,400344E+22	7,400314E+22	7,131014E+22	7,131094E+22	1,480066E+23	1,426211E+23	2,906277E+23
-2459	7,400008E+22	7,400129E+22	7,131096E+22	7,131013E+22	1,480014E+23	1,426211E+23	2,906225E+23
-2458	7,400158E+22	7,400234E+22	7,131157E+22	7,131203E+22	1,480039E+23	1,426236E+23	2,906275E+23
-2457	7,400343E+22	7,400280E+22	7,131248E+22	7,131121E+22	1,480062E+23	1,426237E+23	2,906299E+23
-2456	7,400041E+22	7,400177E+22	7,131247E+22	7,131157E+22	1,480022E+23	1,426240E+23	2,906262E+23
-2455	7,400412E+22	7,400343E+22	7,131232E+22	7,131381E+22	1,480076E+23	1,426261E+23	2,906337E+23
-2454	7,400312E+22	7,400271E+22	7,131276E+22	7,131241E+22	1,480058E+23	1,426252E+23	2,906310E+23
-2453	7,400106E+22	7,400287E+22	7,131259E+22	7,131280E+22	1,480039E+23	1,426254E+23	2,906293E+23
-2452	7,400519E+22	7,400442E+22	7,131247E+22	7,131305E+22	1,480096E+23	1,426255E+23	2,906351E+23
-2451	7,400268E+22	7,400200E+22	7,131283E+22	7,131098E+22	1,480047E+23	1,426238E+23	2,906285E+23
-2450	7,400239E+22	7,400282E+22	7,131260E+22	7,131238E+22	1,480052E+23	1,426250E+23	2,906302E+23
-2449	7,400417E+22	7,400377E+22	7,131224E+22	7,131208E+22	1,480079E+23	1,426243E+23	2,906323E+23
-2448	7,399993E+22	7,400199E+22	7,131155E+22	7,131105E+22	1,480019E+23	1,426226E+23	2,906245E+23
-2447	7,400224E+22	7,400272E+22	7,131129E+22	7,131257E+22	1,480050E+23	1,426239E+23	2,906288E+23
-2446	7,400250E+22	7,400145E+22	7,131136E+22	7,131063E+22	1,480040E+23	1,426220E+23	2,906259E+23
-2445	7,399987E+22	7,400073E+22	7,131103E+22	7,131015E+22	1,480006E+23	1,426212E+23	2,906218E+23
-2444	7,400379E+22	7,400251E+22	7,131066E+22	7,131149E+22	1,480063E+23	1,426221E+23	2,906285E+23
-2443	7,400179E+22	7,400100E+22	7,131073E+22	7,130991E+22	1,480028E+23	1,426206E+23	2,906234E+23
-2442	7,400031E+22	7,400212E+22	7,131089E+22	7,131128E+22	1,480024E+23	1,426222E+23	2,906246E+23
-2441	7,400329E+22	7,400353E+22	7,131147E+22	7,131186E+22	1,480068E+23	1,426233E+23	2,906301E+23
-2440	7,400033E+22	7,400173E+22	7,131198E+22	7,131047E+22	1,480021E+23	1,426225E+23	2,906245E+23
-2439	7,400241E+22	7,400252E+22	7,131275E+22	7,131271E+22	1,480049E+23	1,426255E+23	2,906304E+23
-2438	7,400405E+22	7,400252E+22	7,131297E+22	7,131262E+22	1,480066E+23	1,426256E+23	2,906322E+23
-2437	7,400090E+22	7,400226E+22	7,131284E+22	7,131244E+22	1,480032E+23	1,426253E+23	2,906284E+23
-2436	7,400433E+22	7,400435E+22	7,131277E+22	7,131453E+22	1,480087E+23	1,426273E+23	2,906360E+23
-2435	7,400391E+22	7,400303E+22	7,131294E+22	7,131268E+22	1,480069E+23	1,426256E+23	2,906326E+23
-2434	7,400209E+22	7,400330E+22	7,131328E+22	7,131270E+22	1,480054E+23	1,426260E+23	2,906314E+23
-2433	7,400550E+22	7,400456E+22	7,131359E+22	7,131352E+22	1,480101E+23	1,426271E+23	2,906372E+23
-2432	7,400261E+22	7,400295E+22	7,131324E+22	7,131145E+22	1,480056E+23	1,426247E+23	2,906303E+23
-2431	7,400231E+22	7,400362E+22	7,131305E+22	7,131322E+22	1,480059E+23	1,426263E+23	2,906322E+23
-2430	7,400389E+22	7,400362E+22	7,131251E+22	7,131323E+22	1,480075E+23	1,426257E+23	2,906332E+23
-2429	7,400023E+22	7,400191E+22	7,131220E+22	7,131121E+22	1,480021E+23	1,426234E+23	2,906256E+23
-2428	7,400280E+22	7,400273E+22	7,131210E+22	7,131266E+22	1,480055E+23	1,426248E+23	2,906303E+23
-2427	7,400360E+22	7,400124E+22	7,131152E+22	7,131093E+22	1,480048E+23	1,426224E+23	2,906273E+23
-2426	7,400059E+22	7,400136E+22	7,131122E+22	7,131060E+22	1,480019E+23	1,426218E+23	2,906238E+23
-2425	7,400353E+22	7,400330E+22	7,131123E+22	7,131254E+22	1,480068E+23	1,426238E+23	2,906306E+23
-2424	7,400155E+22	7,400214E+22	7,131108E+22	7,131039E+22	1,480037E+23	1,426215E+23	2,906252E+23
-2423	7,400065E+22	7,400265E+22	7,131196E+22	7,131166E+22	1,480033E+23	1,426236E+23	2,906269E+23
-2422	7,400385E+22	7,400307E+22	7,131252E+22	7,131265E+22	1,480069E+23	1,426252E+23	2,906321E+23
-2421	7,400120E+22	7,400169E+22	7,131306E+22	7,131092E+22	1,480029E+23	1,426240E+23	2,906269E+23
-2420	7,400285E+22	7,400325E+22	7,131354E+22	7,131374E+22	1,480061E+23	1,426273E+23	2,906334E+23
-2419	7,400471E+22	7,400312E+22	7,131296E+22	7,131379E+22	1,480078E+23	1,426267E+23	2,906346E+23
-2418	7,400145E+22	7,400315E+22	7,131318E+22	7,131307E+22	1,480046E+23	1,426262E+23	2,906308E+23
-2417	7,400457E+22	7,400490E+22	7,131378E+22	7,131514E+22	1,480095E+23	1,426289E+23	2,906384E+23
-2416	7,400440E+22	7,400366E+22	7,131361E+22	7,131255E+22	1,480081E+23	1,426262E+23	2,906342E+23
-2415	7,400269E+22	7,400373E+22	7,131426E+22	7,131303E+22	1,480064E+23	1,426273E+23	2,906337E+23
-2414	7,400544E+22	7,400454E+22	7,131407E+22	7,131468E+22	1,480100E+23	1,426287E+23	2,906387E+23
-2413	7,400240E+22	7,400324E+22	7,131365E+22	7,131219E+22	1,480056E+23	1,426258E+23	2,906315E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2412	7,400208E+22	7,400397E+22	7,131355E+22	7,131390E+22	1,480060E+23	1,426274E+23	2,906335E+23
-2411	7,400457E+22	7,400316E+22	7,131252E+22	7,131354E+22	1,480077E+23	1,426261E+23	2,906338E+23
-2410	7,400138E+22	7,400179E+22	7,131250E+22	7,131108E+22	1,480032E+23	1,426236E+23	2,906268E+23
-2409	7,400341E+22	7,400292E+22	7,131267E+22	7,131309E+22	1,480063E+23	1,426258E+23	2,906321E+23
-2408	7,400382E+22	7,400245E+22	7,131158E+22	7,131118E+22	1,480063E+23	1,426228E+23	2,906290E+23
-2407	7,400079E+22	7,400264E+22	7,131183E+22	7,131125E+22	1,480034E+23	1,426231E+23	2,906265E+23
-2406	7,400326E+22	7,400365E+22	7,131211E+22	7,131347E+22	1,480069E+23	1,426256E+23	2,906325E+23
-2405	7,400179E+22	7,400243E+22	7,131244E+22	7,131072E+22	1,480042E+23	1,426232E+23	2,906274E+23
-2404	7,400110E+22	7,400276E+22	7,131340E+22	7,131228E+22	1,480039E+23	1,426257E+23	2,906296E+23
-2403	7,400470E+22	7,400280E+22	7,131302E+22	7,131377E+22	1,480075E+23	1,426268E+23	2,906343E+23
-2402	7,400198E+22	7,400221E+22	7,131328E+22	7,131209E+22	1,480042E+23	1,426254E+23	2,906295E+23
-2401	7,400291E+22	7,400388E+22	7,131379E+22	7,131509E+22	1,480068E+23	1,426289E+23	2,906357E+23
-2400	7,400494E+22	7,400417E+22	7,131302E+22	7,131412E+22	1,480091E+23	1,426271E+23	2,906363E+23
-2399	7,400240E+22	7,400381E+22	7,131395E+22	7,131305E+22	1,480062E+23	1,426270E+23	2,906332E+23
-2398	7,400513E+22	7,400477E+22	7,131473E+22	7,131538E+22	1,480099E+23	1,426301E+23	2,906400E+23
-2397	7,400495E+22	7,400410E+22	7,131464E+22	7,131271E+22	1,480091E+23	1,426273E+23	2,906364E+23
-2396	7,400262E+22	7,400449E+22	7,131512E+22	7,131384E+22	1,480071E+23	1,426290E+23	2,906361E+23
-2395	7,400543E+22	7,400476E+22	7,131416E+22	7,131577E+22	1,480102E+23	1,426299E+23	2,906401E+23
-2394	7,400268E+22	7,400345E+22	7,131400E+22	7,131278E+22	1,480061E+23	1,426268E+23	2,906329E+23
-2393	7,400227E+22	7,400383E+22	7,131425E+22	7,131446E+22	1,480061E+23	1,426287E+23	2,906348E+23
-2392	7,400524E+22	7,400337E+22	7,131279E+22	7,131344E+22	1,480086E+23	1,426262E+23	2,906348E+23
-2391	7,400230E+22	7,400226E+22	7,131294E+22	7,131136E+22	1,480046E+23	1,426243E+23	2,906289E+23
-2390	7,400341E+22	7,400335E+22	7,131290E+22	7,131401E+22	1,480068E+23	1,426269E+23	2,906337E+23
-2389	7,400374E+22	7,400335E+22	7,131206E+22	7,131165E+22	1,480071E+23	1,426237E+23	2,906308E+23
-2388	7,400064E+22	7,400334E+22	7,131286E+22	7,131184E+22	1,480040E+23	1,426247E+23	2,906287E+23
-2387	7,400376E+22	7,400344E+22	7,131282E+22	7,131404E+22	1,480072E+23	1,426269E+23	2,906341E+23
-2386	7,400267E+22	7,400228E+22	7,131333E+22	7,131119E+22	1,480050E+23	1,426245E+23	2,906295E+23
-2385	7,400155E+22	7,400291E+22	7,131420E+22	7,131349E+22	1,480045E+23	1,426277E+23	2,906321E+23
-2384	7,400507E+22	7,400369E+22	7,131298E+22	7,131458E+22	1,480088E+23	1,426276E+23	2,906363E+23
-2383	7,400258E+22	7,400325E+22	7,131355E+22	7,131293E+22	1,480058E+23	1,426265E+23	2,906323E+23
-2382	7,400319E+22	7,400435E+22	7,131437E+22	7,131580E+22	1,480075E+23	1,426302E+23	2,906377E+23
-2381	7,400562E+22	7,400471E+22	7,131414E+22	7,131397E+22	1,480103E+23	1,426281E+23	2,906384E+23
-2380	7,400306E+22	7,400425E+22	7,131543E+22	7,131325E+22	1,480073E+23	1,426287E+23	2,906360E+23
-2379	7,400563E+22	7,400476E+22	7,131538E+22	7,131617E+22	1,480104E+23	1,426315E+23	2,906419E+23
-2378	7,400513E+22	7,400457E+22	7,131506E+22	7,131374E+22	1,480097E+23	1,426288E+23	2,906385E+23
-2377	7,400223E+22	7,400480E+22	7,131550E+22	7,131520E+22	1,480070E+23	1,426307E+23	2,906377E+23
-2376	7,400545E+22	7,400509E+22	7,131414E+22	7,131612E+22	1,480105E+23	1,426303E+23	2,906408E+23
-2375	7,400370E+22	7,400356E+22	7,131436E+22	7,131289E+22	1,480073E+23	1,426272E+23	2,906345E+23
-2374	7,400301E+22	7,400356E+22	7,131461E+22	7,131471E+22	1,480066E+23	1,426293E+23	2,906359E+23
-2373	7,400589E+22	7,400405E+22	7,131325E+22	7,131346E+22	1,480099E+23	1,426267E+23	2,906367E+23
-2372	7,400244E+22	7,400344E+22	7,131362E+22	7,131191E+22	1,480059E+23	1,426255E+23	2,906314E+23
-2371	7,400329E+22	7,400394E+22	7,131327E+22	7,131477E+22	1,480072E+23	1,426280E+23	2,906353E+23
-2370	7,400394E+22	7,400383E+22	7,131297E+22	7,131220E+22	1,480078E+23	1,426252E+23	2,906329E+23
-2369	7,400073E+22	7,400317E+22	7,131406E+22	7,131263E+22	1,480039E+23	1,426267E+23	2,906306E+23
-2368	7,400419E+22	7,400341E+22	7,131345E+22	7,131448E+22	1,480076E+23	1,426279E+23	2,906355E+23
-2367	7,400362E+22	7,400256E+22	7,131374E+22	7,131219E+22	1,480062E+23	1,426259E+23	2,906321E+23
-2366	7,400171E+22	7,400317E+22	7,131424E+22	7,131481E+22	1,480049E+23	1,426291E+23	2,906339E+23
-2365	7,400545E+22	7,400458E+22	7,131324E+22	7,131512E+22	1,480100E+23	1,426284E+23	2,906384E+23
-2364	7,400319E+22	7,400405E+22	7,131443E+22	7,131315E+22	1,480072E+23	1,426276E+23	2,906348E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2363	7,400410E+22	7,400446E+22	7,131512E+22	7,131589E+22	1,480086E+23	1,426310E+23	2,906396E+23
-2362	7,400663E+22	7,400504E+22	7,131521E+22	7,131415E+22	1,480117E+23	1,426294E+23	2,906410E+23
-2361	7,400315E+22	7,400477E+22	7,131647E+22	7,131437E+22	1,480079E+23	1,426308E+23	2,906388E+23
-2360	7,400538E+22	7,400567E+22	7,131566E+22	7,131709E+22	1,480111E+23	1,426327E+23	2,906438E+23
-2359	7,400534E+22	7,400523E+22	7,131544E+22	7,131483E+22	1,480106E+23	1,426303E+23	2,906408E+23
-2358	7,400226E+22	7,400471E+22	7,131593E+22	7,131607E+22	1,480070E+23	1,426320E+23	2,906390E+23
-2357	7,400620E+22	7,400514E+22	7,131474E+22	7,131602E+22	1,480113E+23	1,426308E+23	2,906421E+23
-2356	7,400459E+22	7,400379E+22	7,131517E+22	7,131300E+22	1,480084E+23	1,426282E+23	2,906366E+23
-2355	7,400365E+22	7,400377E+22	7,131471E+22	7,131521E+22	1,480074E+23	1,426299E+23	2,906373E+23
-2354	7,400607E+22	7,400475E+22	7,131348E+22	7,131398E+22	1,480108E+23	1,426275E+23	2,906383E+23
-2353	7,400201E+22	7,400402E+22	7,131424E+22	7,131287E+22	1,480060E+23	1,426271E+23	2,906331E+23
-2352	7,400316E+22	7,400422E+22	7,131372E+22	7,131489E+22	1,480074E+23	1,426286E+23	2,906360E+23
-2351	7,400468E+22	7,400376E+22	7,131374E+22	7,131258E+22	1,480084E+23	1,426263E+23	2,906348E+23
-2350	7,400126E+22	7,400279E+22	7,131469E+22	7,131345E+22	1,480040E+23	1,426281E+23	2,906322E+23
-2349	7,400484E+22	7,400386E+22	7,131385E+22	7,131505E+22	1,480087E+23	1,426289E+23	2,906376E+23
-2348	7,400412E+22	7,400359E+22	7,131427E+22	7,131308E+22	1,480077E+23	1,426273E+23	2,906351E+23
-2347	7,400222E+22	7,400379E+22	7,131445E+22	7,131556E+22	1,480060E+23	1,426300E+23	2,906360E+23
-2346	7,400616E+22	7,400526E+22	7,131417E+22	7,131535E+22	1,480114E+23	1,426295E+23	2,906409E+23
-2345	7,400367E+22	7,400450E+22	7,131583E+22	7,131374E+22	1,480082E+23	1,426296E+23	2,906377E+23
-2344	7,400448E+22	7,400493E+22	7,131603E+22	7,131623E+22	1,480094E+23	1,426323E+23	2,906417E+23
-2343	7,400714E+22	7,400572E+22	7,131587E+22	7,131537E+22	1,480129E+23	1,426312E+23	2,906441E+23
-2342	7,400285E+22	7,400504E+22	7,131680E+22	7,131593E+22	1,480079E+23	1,426327E+23	2,906406E+23
-2341	7,400540E+22	7,400613E+22	7,131601E+22	7,131776E+22	1,480115E+23	1,426338E+23	2,906453E+23
-2340	7,400598E+22	7,400545E+22	7,131615E+22	7,131514E+22	1,480114E+23	1,426313E+23	2,906427E+23
-2339	7,400327E+22	7,400434E+22	7,131616E+22	7,131609E+22	1,480076E+23	1,426323E+23	2,906399E+23
-2338	7,400734E+22	7,400530E+22	7,131524E+22	7,131598E+22	1,480126E+23	1,426312E+23	2,906439E+23
-2337	7,400481E+22	7,400446E+22	7,131563E+22	7,131360E+22	1,480093E+23	1,426292E+23	2,906385E+23
-2336	7,400334E+22	7,400476E+22	7,131484E+22	7,131549E+22	1,480081E+23	1,426303E+23	2,906384E+23
-2335	7,400616E+22	7,400557E+22	7,131401E+22	7,131463E+22	1,480117E+23	1,426286E+23	2,906404E+23
-2334	7,400176E+22	7,400387E+22	7,131513E+22	7,131361E+22	1,480056E+23	1,426287E+23	2,906344E+23
-2333	7,400354E+22	7,400413E+22	7,131472E+22	7,131509E+22	1,480077E+23	1,426298E+23	2,906375E+23
-2332	7,400542E+22	7,400375E+22	7,131472E+22	7,131325E+22	1,480092E+23	1,426280E+23	2,906371E+23
-2331	7,400185E+22	7,400284E+22	7,131465E+22	7,131452E+22	1,480047E+23	1,426292E+23	2,906339E+23
-2330	7,400541E+22	7,400451E+22	7,131395E+22	7,131592E+22	1,480099E+23	1,426299E+23	2,906398E+23
-2329	7,400430E+22	7,400439E+22	7,131478E+22	7,131397E+22	1,480087E+23	1,426287E+23	2,906374E+23
-2328	7,400270E+22	7,400449E+22	7,131506E+22	7,131549E+22	1,480072E+23	1,426305E+23	2,906377E+23
-2327	7,400722E+22	7,400581E+22	7,131519E+22	7,131563E+22	1,480130E+23	1,426308E+23	2,906439E+23
-2326	7,400402E+22	7,400474E+22	7,131694E+22	7,131469E+22	1,480088E+23	1,426316E+23	2,906404E+23
-2325	7,400463E+22	7,400575E+22	7,131685E+22	7,131703E+22	1,480104E+23	1,426339E+23	2,906443E+23
-2324	7,400720E+22	7,400656E+22	7,131673E+22	7,131655E+22	1,480138E+23	1,426333E+23	2,906470E+23
-2323	7,400319E+22	7,400515E+22	7,131708E+22	7,131692E+22	1,480083E+23	1,426340E+23	2,906423E+23
-2322	7,400623E+22	7,400598E+22	7,131666E+22	7,131794E+22	1,480122E+23	1,426346E+23	2,906468E+23
-2321	7,400669E+22	7,400543E+22	7,131694E+22	7,131550E+22	1,480121E+23	1,426324E+23	2,906446E+23
-2320	7,400396E+22	7,400461E+22	7,131637E+22	7,131599E+22	1,480086E+23	1,426324E+23	2,906409E+23
-2319	7,400776E+22	7,400611E+22	7,131532E+22	7,131660E+22	1,480139E+23	1,426319E+23	2,906458E+23
-2318	7,400432E+22	7,400505E+22	7,131589E+22	7,131460E+22	1,480094E+23	1,426305E+23	2,906399E+23
-2317	7,400305E+22	7,400532E+22	7,131538E+22	7,131571E+22	1,480084E+23	1,426311E+23	2,906395E+23
-2316	7,400641E+22	7,400573E+22	7,131507E+22	7,131489E+22	1,480121E+23	1,426300E+23	2,906421E+23
-2315	7,400250E+22	7,400334E+22	7,131564E+22	7,131405E+22	1,480058E+23	1,426297E+23	2,906355E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2314	7,400444E+22	7,400400E+22	7,131533E+22	7,131560E+22	1,480084E+23	1,426309E+23	2,906394E+23
-2313	7,400571E+22	7,400442E+22	7,131514E+22	7,131444E+22	1,480101E+23	1,426296E+23	2,906397E+23
-2312	7,400205E+22	7,400384E+22	7,131468E+22	7,131506E+22	1,480059E+23	1,426297E+23	2,906356E+23
-2311	7,400603E+22	7,400559E+22	7,131441E+22	7,131657E+22	1,480116E+23	1,426310E+23	2,906426E+23
-2310	7,400459E+22	7,400480E+22	7,131585E+22	7,131454E+22	1,480094E+23	1,426304E+23	2,906398E+23
-2309	7,400330E+22	7,400496E+22	7,131643E+22	7,131559E+22	1,480083E+23	1,426320E+23	2,906403E+23
-2308	7,400782E+22	7,400633E+22	7,131663E+22	7,131643E+22	1,480142E+23	1,426331E+23	2,906472E+23
-2307	7,400420E+22	7,400490E+22	7,131737E+22	7,131605E+22	1,480091E+23	1,426334E+23	2,906425E+23
-2306	7,400487E+22	7,400603E+22	7,131734E+22	7,131815E+22	1,480109E+23	1,426355E+23	2,906464E+23
-2305	7,400736E+22	7,400675E+22	7,131723E+22	7,131750E+22	1,480141E+23	1,426347E+23	2,906488E+23
-2304	7,400388E+22	7,400516E+22	7,131725E+22	7,131678E+22	1,480090E+23	1,426340E+23	2,906431E+23
-2303	7,400754E+22	7,400628E+22	7,131692E+22	7,131805E+22	1,480138E+23	1,426350E+23	2,906488E+23
-2302	7,400708E+22	7,400579E+22	7,131735E+22	7,131599E+22	1,480129E+23	1,426333E+23	2,906462E+23
-2301	7,400399E+22	7,400575E+22	7,131679E+22	7,131622E+22	1,480097E+23	1,426330E+23	2,906428E+23
-2300	7,400758E+22	7,400715E+22	7,131616E+22	7,131715E+22	1,480147E+23	1,426333E+23	2,906480E+23
-2299	7,400416E+22	7,400519E+22	7,131646E+22	7,131527E+22	1,480094E+23	1,426317E+23	2,906411E+23
-2298	7,400342E+22	7,400503E+22	7,131642E+22	7,131601E+22	1,480085E+23	1,426324E+23	2,906409E+23
-2297	7,400673E+22	7,400546E+22	7,131605E+22	7,131567E+22	1,480122E+23	1,426317E+23	2,906439E+23
-2296	7,400304E+22	7,400336E+22	7,131578E+22	7,131460E+22	1,480064E+23	1,426304E+23	2,906368E+23
-2295	7,400510E+22	7,400468E+22	7,131513E+22	7,131667E+22	1,480098E+23	1,426318E+23	2,906416E+23
-2294	7,400568E+22	7,400505E+22	7,131530E+22	7,131552E+22	1,480107E+23	1,426308E+23	2,906416E+23
-2293	7,400243E+22	7,400471E+22	7,131530E+22	7,131508E+22	1,480071E+23	1,426304E+23	2,906375E+23
-2292	7,400673E+22	7,400618E+22	7,131579E+22	7,131655E+22	1,480129E+23	1,426323E+23	2,906453E+23
-2291	7,400544E+22	7,400487E+22	7,131685E+22	7,131504E+22	1,480103E+23	1,426319E+23	2,906422E+23
-2290	7,400398E+22	7,400514E+22	7,131752E+22	7,131628E+22	1,480091E+23	1,426338E+23	2,906429E+23
-2289	7,400766E+22	7,400706E+22	7,131746E+22	7,131790E+22	1,480147E+23	1,426354E+23	2,906501E+23
-2288	7,400431E+22	7,400548E+22	7,131759E+22	7,131696E+22	1,480098E+23	1,426346E+23	2,906443E+23
-2287	7,400550E+22	7,400650E+22	7,131761E+22	7,131899E+22	1,480120E+23	1,426366E+23	2,906486E+23
-2286	7,400783E+22	7,400679E+22	7,131793E+22	7,131811E+22	1,480146E+23	1,426360E+23	2,906507E+23
-2285	7,400476E+22	7,400556E+22	7,131791E+22	7,131665E+22	1,480103E+23	1,426346E+23	2,906449E+23
-2284	7,400815E+22	7,400703E+22	7,131769E+22	7,131838E+22	1,480152E+23	1,426361E+23	2,906513E+23
-2283	7,400711E+22	7,400639E+22	7,131743E+22	7,131684E+22	1,480135E+23	1,426343E+23	2,906478E+23
-2282	7,400392E+22	7,400615E+22	7,131738E+22	7,131677E+22	1,480101E+23	1,426342E+23	2,906442E+23
-2281	7,400725E+22	7,400740E+22	7,131705E+22	7,131778E+22	1,480147E+23	1,426348E+23	2,906495E+23
-2280	7,400456E+22	7,400490E+22	7,131700E+22	7,131531E+22	1,480095E+23	1,426323E+23	2,906418E+23
-2279	7,400441E+22	7,400495E+22	7,131677E+22	7,131658E+22	1,480094E+23	1,426333E+23	2,906427E+23
-2278	7,400702E+22	7,400556E+22	7,131638E+22	7,131667E+22	1,480126E+23	1,426330E+23	2,906456E+23
-2277	7,400332E+22	7,400437E+22	7,131593E+22	7,131509E+22	1,480077E+23	1,426310E+23	2,906387E+23
-2276	7,400550E+22	7,400582E+22	7,131578E+22	7,131719E+22	1,480113E+23	1,426330E+23	2,906443E+23
-2275	7,400603E+22	7,400546E+22	7,131588E+22	7,131595E+22	1,480115E+23	1,426318E+23	2,906433E+23
-2274	7,400321E+22	7,400480E+22	7,131672E+22	7,131519E+22	1,480080E+23	1,426319E+23	2,906399E+23
-2273	7,400707E+22	7,400639E+22	7,131721E+22	7,131726E+22	1,480135E+23	1,426345E+23	2,906479E+23
-2272	7,400568E+22	7,400515E+22	7,131742E+22	7,131595E+22	1,480108E+23	1,426334E+23	2,906442E+23
-2271	7,400428E+22	7,400587E+22	7,131762E+22	7,131785E+22	1,480101E+23	1,426355E+23	2,906456E+23
-2270	7,400744E+22	7,400738E+22	7,131778E+22	7,131933E+22	1,480148E+23	1,426371E+23	2,906519E+23
-2269	7,400485E+22	7,400596E+22	7,131801E+22	7,131720E+22	1,480108E+23	1,426352E+23	2,906460E+23
-2268	7,400665E+22	7,400685E+22	7,131845E+22	7,131898E+22	1,480135E+23	1,426374E+23	2,906509E+23
-2267	7,400881E+22	7,400692E+22	7,131836E+22	7,131836E+22	1,480157E+23	1,426367E+23	2,906524E+23
-2266	7,400551E+22	7,400611E+22	7,131867E+22	7,131692E+22	1,480116E+23	1,426356E+23	2,906472E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2265	7,400784E+22	7,400807E+22	7,131846E+22	7,131918E+22	1,480159E+23	1,426376E+23	2,906535E+23
-2264	7,400692E+22	7,400702E+22	7,131786E+22	7,131735E+22	1,480139E+23	1,426352E+23	2,906491E+23
-2263	7,400419E+22	7,400641E+22	7,131792E+22	7,131743E+22	1,480106E+23	1,426353E+23	2,906460E+23
-2262	7,400728E+22	7,400702E+22	7,131797E+22	7,131851E+22	1,480143E+23	1,426365E+23	2,906508E+23
-2261	7,400522E+22	7,400485E+22	7,131759E+22	7,131560E+22	1,480101E+23	1,426332E+23	2,906433E+23
-2260	7,400499E+22	7,400535E+22	7,131714E+22	7,131729E+22	1,480103E+23	1,426344E+23	2,906448E+23
-2259	7,400726E+22	7,400600E+22	7,131615E+22	7,131767E+22	1,480133E+23	1,426338E+23	2,906471E+23
-2258	7,400384E+22	7,400476E+22	7,131629E+22	7,131538E+22	1,480086E+23	1,426317E+23	2,906403E+23
-2257	7,400562E+22	7,400640E+22	7,131670E+22	7,131738E+22	1,480120E+23	1,426341E+23	2,906461E+23
-2256	7,400676E+22	7,400570E+22	7,131662E+22	7,131591E+22	1,480125E+23	1,426325E+23	2,906450E+23
-2255	7,400405E+22	7,400520E+22	7,131743E+22	7,131596E+22	1,480093E+23	1,426334E+23	2,906426E+23
-2254	7,400688E+22	7,400691E+22	7,131805E+22	7,131868E+22	1,480138E+23	1,426367E+23	2,906505E+23
-2253	7,400572E+22	7,400608E+22	7,131794E+22	7,131697E+22	1,480118E+23	1,426349E+23	2,906467E+23
-2252	7,400466E+22	7,400663E+22	7,131837E+22	7,131879E+22	1,480113E+23	1,426372E+23	2,906485E+23
-2251	7,400806E+22	7,400746E+22	7,131827E+22	7,132000E+22	1,480155E+23	1,426383E+23	2,906538E+23
-2250	7,400614E+22	7,400587E+22	7,131904E+22	7,131723E+22	1,480120E+23	1,426363E+23	2,906483E+23
-2249	7,400733E+22	7,400734E+22	7,131945E+22	7,131938E+22	1,480147E+23	1,426388E+23	2,906535E+23
-2248	7,400922E+22	7,400757E+22	7,131861E+22	7,131887E+22	1,480168E+23	1,426375E+23	2,906543E+23
-2247	7,400567E+22	7,400707E+22	7,131879E+22	7,131800E+22	1,480127E+23	1,426368E+23	2,906495E+23
-2246	7,400723E+22	7,400843E+22	7,131912E+22	7,132012E+22	1,480157E+23	1,426392E+23	2,906549E+23
-2245	7,400701E+22	7,400721E+22	7,131856E+22	7,131748E+22	1,480142E+23	1,426360E+23	2,906503E+23
-2244	7,400503E+22	7,400633E+22	7,131878E+22	7,131768E+22	1,480114E+23	1,426365E+23	2,906478E+23
-2243	7,400792E+22	7,400661E+22	7,131812E+22	7,131910E+22	1,480145E+23	1,426372E+23	2,906518E+23
-2242	7,400593E+22	7,400505E+22	7,131786E+22	7,131611E+22	1,480110E+23	1,426340E+23	2,906450E+23
-2241	7,400502E+22	7,400630E+22	7,131741E+22	7,131796E+22	1,480113E+23	1,426354E+23	2,906467E+23
-2240	7,400744E+22	7,400667E+22	7,131630E+22	7,131791E+22	1,480141E+23	1,426342E+23	2,906483E+23
-2239	7,400446E+22	7,400544E+22	7,131687E+22	7,131580E+22	1,480099E+23	1,426327E+23	2,906426E+23
-2238	7,400570E+22	7,400648E+22	7,131797E+22	7,131791E+22	1,480122E+23	1,426359E+23	2,906481E+23
-2237	7,400715E+22	7,400613E+22	7,131762E+22	7,131645E+22	1,480133E+23	1,426341E+23	2,906473E+23
-2236	7,400441E+22	7,400582E+22	7,131821E+22	7,131717E+22	1,480102E+23	1,426354E+23	2,906456E+23
-2235	7,400685E+22	7,400715E+22	7,131822E+22	7,132013E+22	1,480140E+23	1,426384E+23	2,906524E+23
-2234	7,400642E+22	7,400616E+22	7,131857E+22	7,131767E+22	1,480126E+23	1,426362E+23	2,906488E+23
-2233	7,400536E+22	7,400696E+22	7,131922E+22	7,131911E+22	1,480123E+23	1,426383E+23	2,906506E+23
-2232	7,400930E+22	7,400761E+22	7,131877E+22	7,131999E+22	1,480169E+23	1,426388E+23	2,906557E+23
-2231	7,400735E+22	7,400663E+22	7,131941E+22	7,131776E+22	1,480140E+23	1,426372E+23	2,906512E+23
-2230	7,400717E+22	7,400829E+22	7,132021E+22	7,132031E+22	1,480155E+23	1,426405E+23	2,906560E+23
-2229	7,400909E+22	7,400878E+22	7,131924E+22	7,131951E+22	1,480179E+23	1,426387E+23	2,906566E+23
-2228	7,400567E+22	7,400773E+22	7,131975E+22	7,131868E+22	1,480134E+23	1,426384E+23	2,906518E+23
-2227	7,400725E+22	7,400815E+22	7,131983E+22	7,132078E+22	1,480154E+23	1,426406E+23	2,906560E+23
-2226	7,400793E+22	7,400651E+22	7,131944E+22	7,131772E+22	1,480144E+23	1,426372E+23	2,906516E+23
-2225	7,400541E+22	7,400633E+22	7,131926E+22	7,131827E+22	1,480117E+23	1,426375E+23	2,906493E+23
-2224	7,400834E+22	7,400695E+22	7,131772E+22	7,131976E+22	1,480153E+23	1,426375E+23	2,906528E+23
-2223	7,400637E+22	7,400589E+22	7,131742E+22	7,131690E+22	1,480123E+23	1,426343E+23	2,906466E+23
-2222	7,400481E+22	7,400686E+22	7,131793E+22	7,131838E+22	1,480117E+23	1,426363E+23	2,906480E+23
-2221	7,400787E+22	7,400722E+22	7,131711E+22	7,131762E+22	1,480151E+23	1,426347E+23	2,906498E+23
-2220	7,400528E+22	7,400581E+22	7,131811E+22	7,131601E+22	1,480111E+23	1,426341E+23	2,906452E+23
-2219	7,400592E+22	7,400656E+22	7,131876E+22	7,131883E+22	1,480125E+23	1,426376E+23	2,906501E+23
-2218	7,400756E+22	7,400643E+22	7,131847E+22	7,131749E+22	1,480140E+23	1,426360E+23	2,906500E+23
-2217	7,400442E+22	7,400660E+22	7,131895E+22	7,131836E+22	1,480110E+23	1,426373E+23	2,906483E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2216	7,400740E+22	7,400743E+22	7,131855E+22	7,132082E+22	1,480148E+23	1,426394E+23	2,906542E+23
-2215	7,400760E+22	7,400661E+22	7,131905E+22	7,131828E+22	1,480142E+23	1,426373E+23	2,906515E+23
-2214	7,400604E+22	7,400722E+22	7,132027E+22	7,131963E+22	1,480133E+23	1,426399E+23	2,906532E+23
-2213	7,400988E+22	7,400844E+22	7,131950E+22	7,132036E+22	1,480183E+23	1,426399E+23	2,906582E+23
-2212	7,400769E+22	7,400782E+22	7,132010E+22	7,131875E+22	1,480155E+23	1,426388E+23	2,906544E+23
-2211	7,400676E+22	7,400872E+22	7,132054E+22	7,132133E+22	1,480155E+23	1,426419E+23	2,906574E+23
-2210	7,400929E+22	7,400871E+22	7,132009E+22	7,131994E+22	1,480180E+23	1,426400E+23	2,906580E+23
-2209	7,400601E+22	7,400764E+22	7,132065E+22	7,131897E+22	1,480136E+23	1,426396E+23	2,906533E+23
-2208	7,400806E+22	7,400763E+22	7,132006E+22	7,132097E+22	1,480157E+23	1,426410E+23	2,906567E+23
-2207	7,400886E+22	7,400684E+22	7,131931E+22	7,131843E+22	1,480157E+23	1,426377E+23	2,906534E+23
-2206	7,400535E+22	7,400698E+22	7,131941E+22	7,131905E+22	1,480123E+23	1,426385E+23	2,906508E+23
-2205	7,400840E+22	7,400802E+22	7,131788E+22	7,131998E+22	1,480164E+23	1,426379E+23	2,906543E+23
-2204	7,400676E+22	7,400681E+22	7,131820E+22	7,131711E+22	1,480136E+23	1,426353E+23	2,906489E+23
-2203	7,400495E+22	7,400687E+22	7,131892E+22	7,131860E+22	1,480118E+23	1,426375E+23	2,906493E+23
-2202	7,400865E+22	7,400697E+22	7,131853E+22	7,131788E+22	1,480156E+23	1,426364E+23	2,906520E+23
-2201	7,400544E+22	7,400613E+22	7,131920E+22	7,131699E+22	1,480116E+23	1,426362E+23	2,906478E+23
-2200	7,400606E+22	7,400683E+22	7,131890E+22	7,132013E+22	1,480129E+23	1,426390E+23	2,906519E+23
-2199	7,400803E+22	7,400703E+22	7,131842E+22	7,131885E+22	1,480151E+23	1,426373E+23	2,906523E+23
-2198	7,400461E+22	7,400693E+22	7,131956E+22	7,131918E+22	1,480115E+23	1,426387E+23	2,906503E+23
-2197	7,400843E+22	7,400795E+22	7,131919E+22	7,132084E+22	1,480164E+23	1,426400E+23	2,906564E+23
-2196	7,400887E+22	7,400731E+22	7,131990E+22	7,131852E+22	1,480162E+23	1,426384E+23	2,906546E+23
-2195	7,400641E+22	7,400784E+22	7,132093E+22	7,132033E+22	1,480142E+23	1,426413E+23	2,906555E+23
-2194	7,401025E+22	7,400914E+22	7,132041E+22	7,132102E+22	1,480194E+23	1,426414E+23	2,906608E+23
-2193	7,400736E+22	7,400871E+22	7,132113E+22	7,131958E+22	1,480161E+23	1,426407E+23	2,906568E+23
-2192	7,400684E+22	7,400880E+22	7,132114E+22	7,132193E+22	1,480156E+23	1,426431E+23	2,906587E+23
-2191	7,401003E+22	7,400861E+22	7,132058E+22	7,132055E+22	1,480186E+23	1,426411E+23	2,906598E+23
-2190	7,400640E+22	7,400733E+22	7,132138E+22	7,131961E+22	1,480137E+23	1,426410E+23	2,906547E+23
-2189	7,400859E+22	7,400797E+22	7,132012E+22	7,132139E+22	1,480166E+23	1,426415E+23	2,906581E+23
-2188	7,400926E+22	7,400777E+22	7,131929E+22	7,131915E+22	1,480170E+23	1,426384E+23	2,906555E+23
-2187	7,400521E+22	7,400746E+22	7,131949E+22	7,131956E+22	1,480127E+23	1,426391E+23	2,906517E+23
-2186	7,400888E+22	7,400817E+22	7,131877E+22	7,131980E+22	1,480170E+23	1,426386E+23	2,906556E+23
-2185	7,400715E+22	7,400716E+22	7,131945E+22	7,131710E+22	1,480143E+23	1,426366E+23	2,906509E+23
-2184	7,400551E+22	7,400675E+22	7,131962E+22	7,131900E+22	1,480123E+23	1,426386E+23	2,906509E+23
-2183	7,400908E+22	7,400751E+22	7,131892E+22	7,131908E+22	1,480166E+23	1,426380E+23	2,906546E+23
-2182	7,400520E+22	7,400673E+22	7,131982E+22	7,131846E+22	1,480119E+23	1,426383E+23	2,906502E+23
-2181	7,400617E+22	7,400751E+22	7,131925E+22	7,132095E+22	1,480137E+23	1,426402E+23	2,906539E+23
-2180	7,400881E+22	7,400776E+22	7,131912E+22	7,131952E+22	1,480166E+23	1,426386E+23	2,906552E+23
-2179	7,400537E+22	7,400691E+22	7,132030E+22	7,131950E+22	1,480123E+23	1,426398E+23	2,906521E+23
-2178	7,400957E+22	7,400804E+22	7,132030E+22	7,132098E+22	1,480176E+23	1,426413E+23	2,906589E+23
-2177	7,400923E+22	7,400829E+22	7,132086E+22	7,131924E+22	1,480175E+23	1,426401E+23	2,906576E+23
-2176	7,400643E+22	7,400845E+22	7,132123E+22	7,132132E+22	1,480149E+23	1,426425E+23	2,906574E+23
-2175	7,401036E+22	7,400980E+22	7,132078E+22	7,132204E+22	1,480202E+23	1,426428E+23	2,906630E+23
-2174	7,400733E+22	7,400870E+22	7,132210E+22	7,132028E+22	1,480160E+23	1,426424E+23	2,906584E+23
-2173	7,400751E+22	7,400870E+22	7,132177E+22	7,132203E+22	1,480162E+23	1,426438E+23	2,906600E+23
-2172	7,401105E+22	7,400890E+22	7,132104E+22	7,132103E+22	1,480200E+23	1,426421E+23	2,906620E+23
-2171	7,400671E+22	7,400763E+22	7,132146E+22	7,132029E+22	1,480143E+23	1,426417E+23	2,906561E+23
-2170	7,400907E+22	7,400860E+22	7,132045E+22	7,132178E+22	1,480177E+23	1,426422E+23	2,906599E+23
-2169	7,400921E+22	7,400881E+22	7,132000E+22	7,131944E+22	1,480180E+23	1,426394E+23	2,906575E+23
-2168	7,400546E+22	7,400774E+22	7,132013E+22	7,131973E+22	1,480132E+23	1,426399E+23	2,906531E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2167	7,400946E+22	7,400836E+22	7,131962E+22	7,132014E+22	1,480178E+23	1,426398E+23	2,906576E+23
-2166	7,400716E+22	7,400715E+22	7,132063E+22	7,131801E+22	1,480143E+23	1,426386E+23	2,906530E+23
-2165	7,400559E+22	7,400719E+22	7,132002E+22	7,132003E+22	1,480128E+23	1,426401E+23	2,906528E+23
-2164	7,400923E+22	7,400822E+22	7,131903E+22	7,132038E+22	1,480174E+23	1,426394E+23	2,906569E+23
-2163	7,400522E+22	7,400685E+22	7,131997E+22	7,131937E+22	1,480121E+23	1,426393E+23	2,906514E+23
-2162	7,400728E+22	7,400745E+22	7,131994E+22	7,132097E+22	1,480147E+23	1,426409E+23	2,906556E+23
-2161	7,400977E+22	7,400821E+22	7,132015E+22	7,131947E+22	1,480180E+23	1,426396E+23	2,906576E+23
-2160	7,400637E+22	7,400731E+22	7,132091E+22	7,131982E+22	1,480137E+23	1,426407E+23	2,906544E+23
-2159	7,401011E+22	7,400908E+22	7,132084E+22	7,132180E+22	1,480192E+23	1,426426E+23	2,906618E+23
-2158	7,400889E+22	7,400929E+22	7,132189E+22	7,132046E+22	1,480182E+23	1,426423E+23	2,906605E+23
-2157	7,400633E+22	7,400918E+22	7,132201E+22	7,132208E+22	1,480155E+23	1,426441E+23	2,906596E+23
-2156	7,401075E+22	7,401025E+22	7,132169E+22	7,132279E+22	1,480210E+23	1,426445E+23	2,906655E+23
-2155	7,400785E+22	7,400827E+22	7,132289E+22	7,132095E+22	1,480161E+23	1,426438E+23	2,906600E+23
-2154	7,400855E+22	7,400840E+22	7,132243E+22	7,132244E+22	1,480170E+23	1,426449E+23	2,906618E+23
-2153	7,401137E+22	7,400967E+22	7,132139E+22	7,132174E+22	1,480210E+23	1,426431E+23	2,906642E+23
-2152	7,400694E+22	7,400821E+22	7,132119E+22	7,132094E+22	1,480152E+23	1,426421E+23	2,906573E+23
-2151	7,400932E+22	7,400933E+22	7,132060E+22	7,132212E+22	1,480186E+23	1,426427E+23	2,906614E+23
-2150	7,400927E+22	7,400913E+22	7,132101E+22	7,131967E+22	1,480184E+23	1,426407E+23	2,906591E+23
-2149	7,400587E+22	7,400779E+22	7,132092E+22	7,131972E+22	1,480137E+23	1,426406E+23	2,906543E+23
-2148	7,400988E+22	7,400883E+22	7,132032E+22	7,132086E+22	1,480187E+23	1,426412E+23	2,906599E+23
-2147	7,400708E+22	7,400725E+22	7,132099E+22	7,131914E+22	1,480143E+23	1,426401E+23	2,906545E+23
-2146	7,400590E+22	7,400739E+22	7,132045E+22	7,132082E+22	1,480133E+23	1,426413E+23	2,906546E+23
-2145	7,400947E+22	7,400890E+22	7,131974E+22	7,132095E+22	1,480184E+23	1,426407E+23	2,906591E+23
-2144	7,400609E+22	7,400691E+22	7,132040E+22	7,131963E+22	1,480130E+23	1,426400E+23	2,906530E+23
-2143	7,400848E+22	7,400779E+22	7,132065E+22	7,132119E+22	1,480163E+23	1,426418E+23	2,906581E+23
-2142	7,401024E+22	7,400877E+22	7,132127E+22	7,132023E+22	1,480190E+23	1,426415E+23	2,906605E+23
-2141	7,400651E+22	7,400830E+22	7,132149E+22	7,132073E+22	1,480148E+23	1,426422E+23	2,906570E+23
-2140	7,401004E+22	7,401030E+22	7,132140E+22	7,132303E+22	1,480203E+23	1,426444E+23	2,906648E+23
-2139	7,400871E+22	7,400945E+22	7,132265E+22	7,132149E+22	1,480182E+23	1,426441E+23	2,906623E+23
-2138	7,400717E+22	7,400893E+22	7,132301E+22	7,132242E+22	1,480161E+23	1,426454E+23	2,906615E+23
-2137	7,401154E+22	7,401040E+22	7,132265E+22	7,132310E+22	1,480219E+23	1,426458E+23	2,906677E+23
-2136	7,400880E+22	7,400836E+22	7,132299E+22	7,132158E+22	1,480172E+23	1,426446E+23	2,906617E+23
-2135	7,400925E+22	7,400924E+22	7,132239E+22	7,132315E+22	1,480185E+23	1,426455E+23	2,906640E+23
-2134	7,401118E+22	7,401061E+22	7,132193E+22	7,132249E+22	1,480218E+23	1,426444E+23	2,906662E+23
-2133	7,400702E+22	7,400903E+22	7,132172E+22	7,132110E+22	1,480160E+23	1,426428E+23	2,906589E+23
-2132	7,400962E+22	7,400986E+22	7,132141E+22	7,132221E+22	1,480195E+23	1,426436E+23	2,906631E+23
-2131	7,400941E+22	7,400874E+22	7,132198E+22	7,132011E+22	1,480182E+23	1,426421E+23	2,906602E+23
-2130	7,400645E+22	7,400751E+22	7,132171E+22	7,132032E+22	1,480140E+23	1,426420E+23	2,906560E+23
-2129	7,400971E+22	7,400933E+22	7,132078E+22	7,132185E+22	1,480190E+23	1,426426E+23	2,906617E+23
-2128	7,400729E+22	7,400741E+22	7,132077E+22	7,132019E+22	1,480147E+23	1,426410E+23	2,906557E+23
-2127	7,400661E+22	7,400766E+22	7,132054E+22	7,132127E+22	1,480143E+23	1,426418E+23	2,906561E+23
-2126	7,401010E+22	7,400914E+22	7,132061E+22	7,132121E+22	1,480192E+23	1,426418E+23	2,906611E+23
-2125	7,400711E+22	7,400743E+22	7,132104E+22	7,131965E+22	1,480145E+23	1,426407E+23	2,906552E+23
-2124	7,400912E+22	7,400899E+22	7,132134E+22	7,132181E+22	1,480181E+23	1,426432E+23	2,906613E+23
-2123	7,401013E+22	7,400963E+22	7,132205E+22	7,132144E+22	1,480198E+23	1,426435E+23	2,906632E+23
-2122	7,400668E+22	7,400893E+22	7,132252E+22	7,132170E+22	1,480156E+23	1,426442E+23	2,906598E+23
-2121	7,400996E+22	7,401102E+22	7,132270E+22	7,132384E+22	1,480210E+23	1,426465E+23	2,906675E+23
-2120	7,400947E+22	7,400918E+22	7,132336E+22	7,132223E+22	1,480187E+23	1,426456E+23	2,906642E+23
-2119	7,400833E+22	7,400878E+22	7,132362E+22	7,132302E+22	1,480171E+23	1,426466E+23	2,906638E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2118	7,401210E+22	7,401070E+22	7,132329E+22	7,132406E+22	1,480228E+23	1,426474E+23	2,906701E+23
-2117	7,400914E+22	7,400914E+22	7,132282E+22	7,132221E+22	1,480183E+23	1,426450E+23	2,906633E+23
-2116	7,400941E+22	7,401040E+22	7,132238E+22	7,132368E+22	1,480198E+23	1,426461E+23	2,906659E+23
-2115	7,401120E+22	7,401076E+22	7,132247E+22	7,132270E+22	1,480220E+23	1,426452E+23	2,906671E+23
-2114	7,400767E+22	7,400883E+22	7,132271E+22	7,132087E+22	1,480165E+23	1,426436E+23	2,906601E+23
-2113	7,400987E+22	7,401013E+22	7,132254E+22	7,132232E+22	1,480200E+23	1,426449E+23	2,906649E+23
-2112	7,400978E+22	7,400867E+22	7,132222E+22	7,132096E+22	1,480184E+23	1,426432E+23	2,906616E+23
-2111	7,400677E+22	7,400792E+22	7,132180E+22	7,132132E+22	1,480147E+23	1,426431E+23	2,906578E+23
-2110	7,400961E+22	7,400981E+22	7,132128E+22	7,132290E+22	1,480194E+23	1,426442E+23	2,906636E+23
-2109	7,400773E+22	7,400791E+22	7,132104E+22	7,132055E+22	1,480156E+23	1,426416E+23	2,906572E+23
-2108	7,400750E+22	7,400838E+22	7,132110E+22	7,132147E+22	1,480159E+23	1,426426E+23	2,906584E+23
-2107	7,401073E+22	7,400925E+22	7,132156E+22	7,132170E+22	1,480200E+23	1,426433E+23	2,906632E+23
-2106	7,400782E+22	7,400799E+22	7,132198E+22	7,132032E+22	1,480158E+23	1,426423E+23	2,906581E+23
-2105	7,400887E+22	7,401019E+22	7,132230E+22	7,132277E+22	1,480191E+23	1,426451E+23	2,906641E+23
-2104	7,401018E+22	7,401002E+22	7,132253E+22	7,132268E+22	1,480202E+23	1,426452E+23	2,906654E+23
-2103	7,400737E+22	7,400898E+22	7,132330E+22	7,132243E+22	1,480164E+23	1,426457E+23	2,906621E+23
-2102	7,401053E+22	7,401083E+22	7,132383E+22	7,132447E+22	1,480214E+23	1,426483E+23	2,906697E+23
-2101	7,401054E+22	7,400935E+22	7,132376E+22	7,132268E+22	1,480199E+23	1,426464E+23	2,906663E+23
-2100	7,400921E+22	7,400972E+22	7,132362E+22	7,132367E+22	1,480189E+23	1,426473E+23	2,906662E+23
-2099	7,401216E+22	7,401136E+22	7,132354E+22	7,132488E+22	1,480235E+23	1,426484E+23	2,906719E+23
-2098	7,400950E+22	7,400994E+22	7,132340E+22	7,132249E+22	1,480194E+23	1,426459E+23	2,906653E+23
-2097	7,400930E+22	7,401120E+22	7,132352E+22	7,132361E+22	1,480205E+23	1,426471E+23	2,906676E+23
-2096	7,401165E+22	7,401056E+22	7,132326E+22	7,132300E+22	1,480222E+23	1,426463E+23	2,906685E+23
-2095	7,400836E+22	7,400852E+22	7,132352E+22	7,132137E+22	1,480169E+23	1,426449E+23	2,906618E+23
-2094	7,400968E+22	7,401022E+22	7,132323E+22	7,132350E+22	1,480199E+23	1,426467E+23	2,906666E+23
-2093	7,400973E+22	7,400913E+22	7,132199E+22	7,132202E+22	1,480189E+23	1,426440E+23	2,906629E+23
-2092	7,400702E+22	7,400870E+22	7,132155E+22	7,132208E+22	1,480157E+23	1,426436E+23	2,906593E+23
-2091	7,401003E+22	7,400977E+22	7,132171E+22	7,132327E+22	1,480198E+23	1,426450E+23	2,906648E+23
-2090	7,400892E+22	7,400805E+22	7,132180E+22	7,132034E+22	1,480170E+23	1,426421E+23	2,906591E+23
-2089	7,400814E+22	7,400923E+22	7,132227E+22	7,132149E+22	1,480174E+23	1,426438E+23	2,906611E+23
-2088	7,401123E+22	7,400985E+22	7,132214E+22	7,132256E+22	1,480211E+23	1,426447E+23	2,906658E+23
-2087	7,400807E+22	7,400876E+22	7,132283E+22	7,132138E+22	1,480168E+23	1,426442E+23	2,906610E+23
-2086	7,400859E+22	7,401084E+22	7,132357E+22	7,132405E+22	1,480194E+23	1,426476E+23	2,906670E+23
-2085	7,401053E+22	7,401020E+22	7,132323E+22	7,132339E+22	1,480207E+23	1,426466E+23	2,906674E+23
-2084	7,400833E+22	7,400924E+22	7,132388E+22	7,132306E+22	1,480176E+23	1,426469E+23	2,906645E+23
-2083	7,401138E+22	7,401055E+22	7,132449E+22	7,132530E+22	1,480219E+23	1,426498E+23	2,906717E+23
-2082	7,401135E+22	7,400987E+22	7,132404E+22	7,132333E+22	1,480212E+23	1,426474E+23	2,906686E+23
-2081	7,400925E+22	7,401106E+22	7,132406E+22	7,132420E+22	1,480203E+23	1,426483E+23	2,906686E+23
-2080	7,401238E+22	7,401183E+22	7,132374E+22	7,132540E+22	1,480242E+23	1,426491E+23	2,906733E+23
-2079	7,401010E+22	7,401012E+22	7,132425E+22	7,132253E+22	1,480202E+23	1,426468E+23	2,906670E+23
-2078	7,400948E+22	7,401123E+22	7,132479E+22	7,132391E+22	1,480207E+23	1,426487E+23	2,906694E+23
-2077	7,401197E+22	7,401068E+22	7,132370E+22	7,132350E+22	1,480227E+23	1,426472E+23	2,906699E+23
-2076	7,400865E+22	7,400925E+22	7,132353E+22	7,132238E+22	1,480179E+23	1,426459E+23	2,906638E+23
-2075	7,400954E+22	7,401036E+22	7,132348E+22	7,132463E+22	1,480199E+23	1,426481E+23	2,906680E+23
-2074	7,401016E+22	7,400956E+22	7,132237E+22	7,132248E+22	1,480197E+23	1,426448E+23	2,906646E+23
-2073	7,400744E+22	7,400940E+22	7,132243E+22	7,132196E+22	1,480168E+23	1,426444E+23	2,906612E+23
-2072	7,401095E+22	7,400972E+22	7,132236E+22	7,132347E+22	1,480207E+23	1,426458E+23	2,906665E+23
-2071	7,400996E+22	7,400828E+22	7,132277E+22	7,132074E+22	1,480182E+23	1,426435E+23	2,906618E+23
-2070	7,400796E+22	7,400989E+22	7,132331E+22	7,132256E+22	1,480179E+23	1,426459E+23	2,906637E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2069	7,401100E+22	7,401064E+22	7,132248E+22	7,132370E+22	1,480216E+23	1,426462E+23	2,906678E+23
-2068	7,400832E+22	7,400942E+22	7,132316E+22	7,132238E+22	1,480177E+23	1,426455E+23	2,906633E+23
-2067	7,400891E+22	7,401043E+22	7,132446E+22	7,132483E+22	1,480193E+23	1,426493E+23	2,906686E+23
-2066	7,401169E+22	7,401020E+22	7,132399E+22	7,132372E+22	1,480219E+23	1,426477E+23	2,906696E+23
-2065	7,400915E+22	7,401002E+22	7,132463E+22	7,132339E+22	1,480192E+23	1,426480E+23	2,906672E+23
-2064	7,401206E+22	7,401119E+22	7,132457E+22	7,132621E+22	1,480232E+23	1,426508E+23	2,906740E+23
-2063	7,401191E+22	7,401076E+22	7,132455E+22	7,132396E+22	1,480227E+23	1,426485E+23	2,906712E+23
-2062	7,400904E+22	7,401193E+22	7,132520E+22	7,132478E+22	1,480210E+23	1,426500E+23	2,906709E+23
-2061	7,401256E+22	7,401222E+22	7,132454E+22	7,132560E+22	1,480248E+23	1,426501E+23	2,906749E+23
-2060	7,401068E+22	7,401039E+22	7,132500E+22	7,132298E+22	1,480211E+23	1,426480E+23	2,906690E+23
-2059	7,400960E+22	7,401081E+22	7,132563E+22	7,132491E+22	1,480204E+23	1,426505E+23	2,906710E+23
-2058	7,401215E+22	7,401096E+22	7,132387E+22	7,132443E+22	1,480231E+23	1,426483E+23	2,906714E+23
-2057	7,400857E+22	7,401004E+22	7,132375E+22	7,132304E+22	1,480186E+23	1,426468E+23	2,906654E+23
-2056	7,401007E+22	7,401028E+22	7,132342E+22	7,132516E+22	1,480204E+23	1,426486E+23	2,906689E+23
-2055	7,401121E+22	7,400947E+22	7,132300E+22	7,132231E+22	1,480207E+23	1,426453E+23	2,906660E+23
-2054	7,400808E+22	7,400974E+22	7,132357E+22	7,132204E+22	1,480178E+23	1,426456E+23	2,906634E+23
-2053	7,401144E+22	7,401029E+22	7,132281E+22	7,132374E+22	1,480217E+23	1,426466E+23	2,906683E+23
-2052	7,401013E+22	7,400951E+22	7,132310E+22	7,132173E+22	1,480196E+23	1,426448E+23	2,906645E+23
-2051	7,400760E+22	7,401033E+22	7,132418E+22	7,132392E+22	1,480179E+23	1,426481E+23	2,906660E+23
-2050	7,401105E+22	7,401112E+22	7,132331E+22	7,132452E+22	1,480222E+23	1,426478E+23	2,906700E+23
-2049	7,400876E+22	7,400992E+22	7,132434E+22	7,132283E+22	1,480187E+23	1,426472E+23	2,906659E+23
-2048	7,401006E+22	7,401001E+22	7,132505E+22	7,132559E+22	1,480201E+23	1,426506E+23	2,906707E+23
-2047	7,401291E+22	7,401033E+22	7,132467E+22	7,132440E+22	1,480232E+23	1,426491E+23	2,906723E+23
-2046	7,400937E+22	7,401101E+22	7,132526E+22	7,132438E+22	1,480204E+23	1,426496E+23	2,906700E+23
-2045	7,401215E+22	7,401221E+22	7,132466E+22	7,132686E+22	1,480244E+23	1,426515E+23	2,906759E+23
-2044	7,401231E+22	7,401176E+22	7,132496E+22	7,132441E+22	1,480241E+23	1,426494E+23	2,906734E+23
-2043	7,400928E+22	7,401173E+22	7,132640E+22	7,132517E+22	1,480210E+23	1,426516E+23	2,906726E+23
-2042	7,401311E+22	7,401233E+22	7,132549E+22	7,132583E+22	1,480254E+23	1,426513E+23	2,906767E+23
-2041	7,401097E+22	7,401096E+22	7,132583E+22	7,132350E+22	1,480219E+23	1,426493E+23	2,906713E+23
-2040	7,400982E+22	7,401087E+22	7,132566E+22	7,132607E+22	1,480207E+23	1,426517E+23	2,906724E+23
-2039	7,401262E+22	7,401123E+22	7,132423E+22	7,132515E+22	1,480238E+23	1,426494E+23	2,906732E+23
-2038	7,400864E+22	7,401046E+22	7,132444E+22	7,132341E+22	1,480191E+23	1,426479E+23	2,906670E+23
-2037	7,401064E+22	7,401053E+22	7,132373E+22	7,132509E+22	1,480212E+23	1,426488E+23	2,906700E+23
-2036	7,401217E+22	7,400999E+22	7,132340E+22	7,132249E+22	1,480222E+23	1,426459E+23	2,906680E+23
-2035	7,400816E+22	7,400983E+22	7,132444E+22	7,132292E+22	1,480180E+23	1,426474E+23	2,906653E+23
-2034	7,401120E+22	7,401122E+22	7,132329E+22	7,132466E+22	1,480224E+23	1,426480E+23	2,906704E+23
-2033	7,400984E+22	7,401049E+22	7,132385E+22	7,132259E+22	1,480203E+23	1,426464E+23	2,906668E+23
-2032	7,400795E+22	7,401007E+22	7,132469E+22	7,132487E+22	1,480180E+23	1,426496E+23	2,906676E+23
-2031	7,401218E+22	7,401075E+22	7,132428E+22	7,132487E+22	1,480229E+23	1,426492E+23	2,906721E+23
-2030	7,400961E+22	7,401012E+22	7,132535E+22	7,132338E+22	1,480197E+23	1,426487E+23	2,906685E+23
-2029	7,401093E+22	7,401068E+22	7,132517E+22	7,132621E+22	1,480216E+23	1,426514E+23	2,906730E+23
-2028	7,401356E+22	7,401175E+22	7,132477E+22	7,132528E+22	1,480253E+23	1,426500E+23	2,906753E+23
-2027	7,400939E+22	7,401175E+22	7,132621E+22	7,132534E+22	1,480211E+23	1,426515E+23	2,906727E+23
-2026	7,401225E+22	7,401308E+22	7,132569E+22	7,132710E+22	1,480253E+23	1,426528E+23	2,906781E+23
-2025	7,401265E+22	7,401240E+22	7,132642E+22	7,132461E+22	1,480250E+23	1,426510E+23	2,906761E+23
-2024	7,400998E+22	7,401119E+22	7,132724E+22	7,132604E+22	1,480212E+23	1,426533E+23	2,906745E+23
-2023	7,401363E+22	7,401209E+22	7,132615E+22	7,132670E+22	1,480257E+23	1,426528E+23	2,906786E+23
-2022	7,401082E+22	7,401148E+22	7,132615E+22	7,132471E+22	1,480223E+23	1,426509E+23	2,906732E+23
-2021	7,401002E+22	7,401116E+22	7,132516E+22	7,132665E+22	1,480212E+23	1,426518E+23	2,906730E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2020	7,401326E+22	7,401173E+22	7,132407E+22	7,132529E+22	1,480250E+23	1,426494E+23	2,906743E+23
-2019	7,400925E+22	7,401036E+22	7,132518E+22	7,132347E+22	1,480196E+23	1,426487E+23	2,906683E+23
-2018	7,401117E+22	7,401110E+22	7,132435E+22	7,132490E+22	1,480223E+23	1,426493E+23	2,906715E+23
-2017	7,401233E+22	7,401118E+22	7,132425E+22	7,132288E+22	1,480235E+23	1,426471E+23	2,906706E+23
-2016	7,400817E+22	7,401015E+22	7,132490E+22	7,132414E+22	1,480183E+23	1,426490E+23	2,906674E+23
-2015	7,401127E+22	7,401146E+22	7,132428E+22	7,132553E+22	1,480227E+23	1,426498E+23	2,906725E+23
-2014	7,400988E+22	7,401081E+22	7,132506E+22	7,132344E+22	1,480207E+23	1,426485E+23	2,906692E+23
-2013	7,400878E+22	7,400993E+22	7,132519E+22	7,132534E+22	1,480187E+23	1,426505E+23	2,906692E+23
-2012	7,401346E+22	7,401110E+22	7,132466E+22	7,132558E+22	1,480246E+23	1,426502E+23	2,906748E+23
-2011	7,401020E+22	7,401045E+22	7,132599E+22	7,132449E+22	1,480207E+23	1,426505E+23	2,906711E+23
-2010	7,401111E+22	7,401203E+22	7,132544E+22	7,132695E+22	1,480231E+23	1,426524E+23	2,906755E+23
-2009	7,401372E+22	7,401313E+22	7,132559E+22	7,132578E+22	1,480268E+23	1,426514E+23	2,906782E+23
-2008	7,400983E+22	7,401175E+22	7,132709E+22	7,132598E+22	1,480216E+23	1,426531E+23	2,906746E+23
-2007	7,401305E+22	7,401290E+22	7,132707E+22	7,132731E+22	1,480260E+23	1,426544E+23	2,906803E+23
-2006	7,401300E+22	7,401253E+22	7,132753E+22	7,132529E+22	1,480255E+23	1,426528E+23	2,906784E+23
-2005	7,401029E+22	7,401143E+22	7,132718E+22	7,132694E+22	1,480217E+23	1,426541E+23	2,906758E+23
-2004	7,401402E+22	7,401286E+22	7,132584E+22	7,132771E+22	1,480269E+23	1,426535E+23	2,906804E+23
-2003	7,401083E+22	7,401165E+22	7,132650E+22	7,132553E+22	1,480225E+23	1,426520E+23	2,906745E+23
-2002	7,401032E+22	7,401185E+22	7,132548E+22	7,132653E+22	1,480222E+23	1,426520E+23	2,906742E+23
-2001	7,401393E+22	7,401234E+22	7,132498E+22	7,132500E+22	1,480263E+23	1,426500E+23	2,906763E+23
-2000	7,400995E+22	7,401014E+22	7,132587E+22	7,132397E+22	1,480201E+23	1,426498E+23	2,906699E+23
-1999	7,401141E+22	7,401137E+22	7,132522E+22	7,132548E+22	1,480228E+23	1,426507E+23	2,906735E+23
-1998	7,401184E+22	7,401194E+22	7,132503E+22	7,132402E+22	1,480238E+23	1,426490E+23	2,906728E+23
-1997	7,400821E+22	7,401031E+22	7,132504E+22	7,132504E+22	1,480185E+23	1,426501E+23	2,906686E+23
-1996	7,401199E+22	7,401159E+22	7,132463E+22	7,132613E+22	1,480236E+23	1,426508E+23	2,906743E+23
-1995	7,401074E+22	7,401046E+22	7,132599E+22	7,132413E+22	1,480212E+23	1,426501E+23	2,906713E+23
-1994	7,400971E+22	7,401063E+22	7,132558E+22	7,132566E+22	1,480203E+23	1,426512E+23	2,906716E+23
-1993	7,401409E+22	7,401254E+22	7,132530E+22	7,132622E+22	1,480266E+23	1,426515E+23	2,906781E+23
-1992	7,401068E+22	7,401125E+22	7,132649E+22	7,132565E+22	1,480219E+23	1,426521E+23	2,906741E+23
-1991	7,401138E+22	7,401269E+22	7,132663E+22	7,132740E+22	1,480241E+23	1,426540E+23	2,906781E+23
-1990	7,401377E+22	7,401381E+22	7,132711E+22	7,132638E+22	1,480276E+23	1,426535E+23	2,906811E+23
-1989	7,401052E+22	7,401155E+22	7,132783E+22	7,132651E+22	1,480221E+23	1,426543E+23	2,906764E+23
-1988	7,401370E+22	7,401300E+22	7,132751E+22	7,132818E+22	1,480267E+23	1,426557E+23	2,906824E+23
-1987	7,401308E+22	7,401259E+22	7,132796E+22	7,132672E+22	1,480257E+23	1,426547E+23	2,906804E+23
-1986	7,401027E+22	7,401225E+22	7,132691E+22	7,132765E+22	1,480225E+23	1,426546E+23	2,906771E+23
-1985	7,401436E+22	7,401367E+22	7,132610E+22	7,132792E+22	1,480280E+23	1,426540E+23	2,906820E+23
-1984	7,401166E+22	7,401139E+22	7,132684E+22	7,132562E+22	1,480230E+23	1,426525E+23	2,906755E+23
-1983	7,401128E+22	7,401177E+22	7,132648E+22	7,132606E+22	1,480230E+23	1,426525E+23	2,906756E+23
-1982	7,401420E+22	7,401300E+22	7,132601E+22	7,132526E+22	1,480272E+23	1,426513E+23	2,906785E+23
-1981	7,401007E+22	7,401067E+22	7,132609E+22	7,132475E+22	1,480207E+23	1,426508E+23	2,906716E+23
-1980	7,401135E+22	7,401219E+22	7,132553E+22	7,132655E+22	1,480235E+23	1,426521E+23	2,906756E+23
-1979	7,401161E+22	7,401200E+22	7,132597E+22	7,132523E+22	1,480236E+23	1,426512E+23	2,906748E+23
-1978	7,400852E+22	7,401070E+22	7,132564E+22	7,132545E+22	1,480192E+23	1,426511E+23	2,906703E+23
-1977	7,401303E+22	7,401192E+22	7,132554E+22	7,132650E+22	1,480249E+23	1,426520E+23	2,906770E+23
-1976	7,401177E+22	7,401030E+22	7,132643E+22	7,132512E+22	1,480221E+23	1,426515E+23	2,906736E+23
-1975	7,401039E+22	7,401132E+22	7,132621E+22	7,132636E+22	1,480217E+23	1,426526E+23	2,906743E+23
-1974	7,401405E+22	7,401374E+22	7,132600E+22	7,132707E+22	1,480278E+23	1,426531E+23	2,906809E+23
-1973	7,401096E+22	7,401175E+22	7,132691E+22	7,132623E+22	1,480227E+23	1,426531E+23	2,906758E+23
-1972	7,401204E+22	7,401309E+22	7,132743E+22	7,132777E+22	1,480251E+23	1,426552E+23	2,906803E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1971	7,401423E+22	7,401354E+22	7,132836E+22	7,132718E+22	1,480278E+23	1,426555E+23	2,906833E+23
-1970	7,401094E+22	7,401211E+22	7,132829E+22	7,132714E+22	1,480231E+23	1,426554E+23	2,906785E+23
-1969	7,401411E+22	7,401386E+22	7,132793E+22	7,132903E+22	1,480280E+23	1,426570E+23	2,906849E+23
-1968	7,401346E+22	7,401276E+22	7,132808E+22	7,132781E+22	1,480262E+23	1,426559E+23	2,906821E+23
-1967	7,401082E+22	7,401258E+22	7,132757E+22	7,132771E+22	1,480234E+23	1,426553E+23	2,906787E+23
-1966	7,401472E+22	7,401421E+22	7,132710E+22	7,132789E+22	1,480289E+23	1,426550E+23	2,906839E+23
-1965	7,401249E+22	7,401139E+22	7,132733E+22	7,132569E+22	1,480239E+23	1,426530E+23	2,906769E+23
-1964	7,401176E+22	7,401223E+22	7,132696E+22	7,132656E+22	1,480240E+23	1,426535E+23	2,906775E+23
-1963	7,401381E+22	7,401340E+22	7,132671E+22	7,132660E+22	1,480272E+23	1,426533E+23	2,906805E+23
-1962	7,400965E+22	7,401150E+22	7,132623E+22	7,132564E+22	1,480212E+23	1,426519E+23	2,906730E+23
-1961	7,401147E+22	7,401264E+22	7,132619E+22	7,132717E+22	1,480241E+23	1,426534E+23	2,906775E+23
-1960	7,401246E+22	7,401144E+22	7,132655E+22	7,132595E+22	1,480239E+23	1,426525E+23	2,906764E+23
-1959	7,400971E+22	7,401050E+22	7,132642E+22	7,132546E+22	1,480202E+23	1,426519E+23	2,906721E+23
-1958	7,401365E+22	7,401272E+22	7,132624E+22	7,132706E+22	1,480264E+23	1,426533E+23	2,906797E+23
-1957	7,401241E+22	7,401116E+22	7,132643E+22	7,132589E+22	1,480236E+23	1,426523E+23	2,906759E+23
-1956	7,401068E+22	7,401246E+22	7,132668E+22	7,132706E+22	1,480231E+23	1,426537E+23	2,906769E+23
-1955	7,401395E+22	7,401430E+22	7,132735E+22	7,132798E+22	1,480283E+23	1,426553E+23	2,906836E+23
-1954	7,401123E+22	7,401234E+22	7,132798E+22	7,132656E+22	1,480236E+23	1,426545E+23	2,906781E+23
-1953	7,401273E+22	7,401337E+22	7,132872E+22	7,132838E+22	1,480261E+23	1,426571E+23	2,906832E+23
-1952	7,401483E+22	7,401322E+22	7,132894E+22	7,132856E+22	1,480280E+23	1,426575E+23	2,906855E+23
-1951	7,401137E+22	7,401244E+22	7,132866E+22	7,132803E+22	1,480238E+23	1,426567E+23	2,906805E+23
-1950	7,401420E+22	7,401464E+22	7,132828E+22	7,132983E+22	1,480288E+23	1,426581E+23	2,906870E+23
-1949	7,401415E+22	7,401294E+22	7,132804E+22	7,132804E+22	1,480271E+23	1,426561E+23	2,906832E+23
-1948	7,401177E+22	7,401295E+22	7,132804E+22	7,132753E+22	1,480247E+23	1,426556E+23	2,906803E+23
-1947	7,401513E+22	7,401434E+22	7,132814E+22	7,132821E+22	1,480295E+23	1,426564E+23	2,906858E+23
-1946	7,401249E+22	7,401239E+22	7,132779E+22	7,132608E+22	1,480249E+23	1,426539E+23	2,906788E+23
-1945	7,401164E+22	7,401326E+22	7,132762E+22	7,132745E+22	1,480249E+23	1,426551E+23	2,906800E+23
-1944	7,401354E+22	7,401337E+22	7,132718E+22	7,132789E+22	1,480269E+23	1,426551E+23	2,906820E+23
-1943	7,400996E+22	7,401146E+22	7,132710E+22	7,132607E+22	1,480214E+23	1,426532E+23	2,906746E+23
-1942	7,401204E+22	7,401260E+22	7,132711E+22	7,132747E+22	1,480246E+23	1,426546E+23	2,906792E+23
-1941	7,401357E+22	7,401112E+22	7,132676E+22	7,132636E+22	1,480247E+23	1,426531E+23	2,906778E+23
-1940	7,401062E+22	7,401115E+22	7,132660E+22	7,132603E+22	1,480218E+23	1,426526E+23	2,906744E+23
-1939	7,401361E+22	7,401353E+22	7,132680E+22	7,132818E+22	1,480271E+23	1,426550E+23	2,906821E+23
-1938	7,401231E+22	7,401247E+22	7,132680E+22	7,132645E+22	1,480248E+23	1,426533E+23	2,906780E+23
-1937	7,401107E+22	7,401321E+22	7,132784E+22	7,132745E+22	1,480243E+23	1,426553E+23	2,906796E+23
-1936	7,401454E+22	7,401395E+22	7,132852E+22	7,132874E+22	1,480285E+23	1,426573E+23	2,906857E+23
-1935	7,401213E+22	7,401230E+22	7,132920E+22	7,132702E+22	1,480244E+23	1,426562E+23	2,906806E+23
-1934	7,401310E+22	7,401400E+22	7,132956E+22	7,132939E+22	1,480271E+23	1,426590E+23	2,906860E+23
-1933	7,401534E+22	7,401373E+22	7,132886E+22	7,132973E+22	1,480291E+23	1,426586E+23	2,906877E+23
-1932	7,401191E+22	7,401327E+22	7,132882E+22	7,132869E+22	1,480252E+23	1,426575E+23	2,906827E+23
-1931	7,401441E+22	7,401509E+22	7,132915E+22	7,133042E+22	1,480295E+23	1,426596E+23	2,906891E+23
-1930	7,401466E+22	7,401366E+22	7,132866E+22	7,132791E+22	1,480283E+23	1,426566E+23	2,906849E+23
-1929	7,401240E+22	7,401346E+22	7,132907E+22	7,132774E+22	1,480259E+23	1,426568E+23	2,906827E+23
-1928	7,401517E+22	7,401438E+22	7,132877E+22	7,132930E+22	1,480295E+23	1,426581E+23	2,906876E+23
-1927	7,401237E+22	7,401271E+22	7,132831E+22	7,132681E+22	1,480251E+23	1,426551E+23	2,906802E+23
-1926	7,401128E+22	7,401362E+22	7,132822E+22	7,132824E+22	1,480249E+23	1,426565E+23	2,906814E+23
-1925	7,401410E+22	7,401295E+22	7,132726E+22	7,132834E+22	1,480270E+23	1,426556E+23	2,906826E+23
-1924	7,401104E+22	7,401128E+22	7,132741E+22	7,132610E+22	1,480223E+23	1,426535E+23	2,906758E+23
-1923	7,401275E+22	7,401270E+22	7,132776E+22	7,132805E+22	1,480254E+23	1,426558E+23	2,906813E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1922	7,401399E+22	7,401232E+22	7,132685E+22	7,132673E+22	1,480263E+23	1,426536E+23	2,906799E+23
-1921	7,401094E+22	7,401256E+22	7,132727E+22	7,132672E+22	1,480235E+23	1,426540E+23	2,906775E+23
-1920	7,401354E+22	7,401407E+22	7,132774E+22	7,132917E+22	1,480276E+23	1,426569E+23	2,906845E+23
-1919	7,401263E+22	7,401292E+22	7,132826E+22	7,132681E+22	1,480255E+23	1,426551E+23	2,906806E+23
-1918	7,401148E+22	7,401347E+22	7,132941E+22	7,132811E+22	1,480249E+23	1,426575E+23	2,906825E+23
-1917	7,401534E+22	7,401367E+22	7,132913E+22	7,132979E+22	1,480290E+23	1,426589E+23	2,906879E+23
-1916	7,401285E+22	7,401275E+22	7,132947E+22	7,132823E+22	1,480256E+23	1,426577E+23	2,906833E+23
-1915	7,401316E+22	7,401457E+22	7,132987E+22	7,133087E+22	1,480277E+23	1,426607E+23	2,906885E+23
-1914	7,401553E+22	7,401476E+22	7,132888E+22	7,133019E+22	1,480303E+23	1,426591E+23	2,906894E+23
-1913	7,401282E+22	7,401398E+22	7,132955E+22	7,132872E+22	1,480268E+23	1,426583E+23	2,906851E+23
-1912	7,401509E+22	7,401488E+22	7,132998E+22	7,133056E+22	1,480300E+23	1,426605E+23	2,906905E+23
-1911	7,401530E+22	7,401401E+22	7,132964E+22	7,132790E+22	1,480293E+23	1,426575E+23	2,906869E+23
-1910	7,401238E+22	7,401417E+22	7,132989E+22	7,132839E+22	1,480265E+23	1,426583E+23	2,906848E+23
-1909	7,401501E+22	7,401458E+22	7,132884E+22	7,133028E+22	1,480296E+23	1,426591E+23	2,906887E+23
-1908	7,401252E+22	7,401301E+22	7,132869E+22	7,132751E+22	1,480255E+23	1,426562E+23	2,906817E+23
-1907	7,401139E+22	7,401344E+22	7,132899E+22	7,132897E+22	1,480248E+23	1,426580E+23	2,906828E+23
-1906	7,401473E+22	7,401316E+22	7,132761E+22	7,132843E+22	1,480279E+23	1,426560E+23	2,906839E+23
-1905	7,401210E+22	7,401175E+22	7,132794E+22	7,132647E+22	1,480239E+23	1,426544E+23	2,906783E+23
-1904	7,401301E+22	7,401311E+22	7,132804E+22	7,132905E+22	1,480261E+23	1,426571E+23	2,906832E+23
-1903	7,401414E+22	7,401337E+22	7,132738E+22	7,132732E+22	1,480275E+23	1,426547E+23	2,906822E+23
-1902	7,401090E+22	7,401344E+22	7,132836E+22	7,132735E+22	1,480243E+23	1,426557E+23	2,906800E+23
-1901	7,401401E+22	7,401405E+22	7,132856E+22	7,132972E+22	1,480281E+23	1,426583E+23	2,906863E+23
-1900	7,401357E+22	7,401296E+22	7,132929E+22	7,132732E+22	1,480265E+23	1,426566E+23	2,906831E+23
-1899	7,401193E+22	7,401361E+22	7,133044E+22	7,132939E+22	1,480255E+23	1,426598E+23	2,906854E+23
-1898	7,401568E+22	7,401465E+22	7,132930E+22	7,133079E+22	1,480303E+23	1,426601E+23	2,906904E+23
-1897	7,401344E+22	7,401380E+22	7,132985E+22	7,132920E+22	1,480272E+23	1,426590E+23	2,906863E+23
-1896	7,401352E+22	7,401496E+22	7,133042E+22	7,133171E+22	1,480285E+23	1,426621E+23	2,906906E+23
-1895	7,401631E+22	7,401520E+22	7,132983E+22	7,133000E+22	1,480315E+23	1,426598E+23	2,906913E+23
-1894	7,401342E+22	7,401435E+22	7,133085E+22	7,132874E+22	1,480278E+23	1,426596E+23	2,906874E+23
-1893	7,401560E+22	7,401487E+22	7,133052E+22	7,133109E+22	1,480305E+23	1,426616E+23	2,906921E+23
-1892	7,401543E+22	7,401448E+22	7,132999E+22	7,132877E+22	1,480299E+23	1,426588E+23	2,906887E+23
-1891	7,401185E+22	7,401449E+22	7,133032E+22	7,132976E+22	1,480263E+23	1,426601E+23	2,906864E+23
-1890	7,401485E+22	7,401494E+22	7,132887E+22	7,133074E+22	1,480298E+23	1,426596E+23	2,906894E+23
-1889	7,401337E+22	7,401308E+22	7,132914E+22	7,132773E+22	1,480265E+23	1,426569E+23	2,906833E+23
-1888	7,401222E+22	7,401307E+22	7,132940E+22	7,132934E+22	1,480253E+23	1,426587E+23	2,906840E+23
-1887	7,401557E+22	7,401368E+22	7,132811E+22	7,132850E+22	1,480292E+23	1,426566E+23	2,906858E+23
-1886	7,401238E+22	7,401296E+22	7,132861E+22	7,132706E+22	1,480253E+23	1,426557E+23	2,906810E+23
-1885	7,401309E+22	7,401384E+22	7,132840E+22	7,132980E+22	1,480269E+23	1,426582E+23	2,906851E+23
-1884	7,401441E+22	7,401409E+22	7,132835E+22	7,132793E+22	1,480285E+23	1,426563E+23	2,906848E+23
-1883	7,401104E+22	7,401355E+22	7,132981E+22	7,132832E+22	1,480246E+23	1,426581E+23	2,906827E+23
-1882	7,401442E+22	7,401425E+22	7,132947E+22	7,133032E+22	1,480287E+23	1,426598E+23	2,906885E+23
-1881	7,401456E+22	7,401333E+22	7,133006E+22	7,132849E+22	1,480279E+23	1,426585E+23	2,906864E+23
-1880	7,401224E+22	7,401375E+22	7,133063E+22	7,133087E+22	1,480260E+23	1,426615E+23	2,906875E+23
-1879	7,401613E+22	7,401541E+22	7,132957E+22	7,133145E+22	1,480315E+23	1,426610E+23	2,906926E+23
-1878	7,401408E+22	7,401455E+22	7,133056E+22	7,132945E+22	1,480286E+23	1,426600E+23	2,906886E+23
-1877	7,401441E+22	7,401498E+22	7,133091E+22	7,133166E+22	1,480294E+23	1,426626E+23	2,906920E+23
-1876	7,401732E+22	7,401556E+22	7,133072E+22	7,133002E+22	1,480329E+23	1,426607E+23	2,906936E+23
-1875	7,401354E+22	7,401483E+22	7,133181E+22	7,132967E+22	1,480284E+23	1,426615E+23	2,906899E+23
-1874	7,401521E+22	7,401585E+22	7,133079E+22	7,133187E+22	1,480311E+23	1,426627E+23	2,906937E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1873	7,401550E+22	7,401521E+22	7,133043E+22	7,132981E+22	1,480307E+23	1,426602E+23	2,906910E+23
-1872	7,401179E+22	7,401431E+22	7,133080E+22	7,133069E+22	1,480261E+23	1,426615E+23	2,906876E+23
-1871	7,401554E+22	7,401492E+22	7,132952E+22	7,133077E+22	1,480305E+23	1,426603E+23	2,906907E+23
-1870	7,401429E+22	7,401321E+22	7,132994E+22	7,132786E+22	1,480275E+23	1,426578E+23	2,906853E+23
-1869	7,401297E+22	7,401321E+22	7,132947E+22	7,132985E+22	1,480262E+23	1,426593E+23	2,906855E+23
-1868	7,401597E+22	7,401455E+22	7,132835E+22	7,132911E+22	1,480305E+23	1,426575E+23	2,906880E+23
-1867	7,401208E+22	7,401377E+22	7,132937E+22	7,132817E+22	1,480259E+23	1,426575E+23	2,906834E+23
-1866	7,401299E+22	7,401451E+22	7,132910E+22	7,133012E+22	1,480275E+23	1,426592E+23	2,906867E+23
-1865	7,401518E+22	7,401425E+22	7,132941E+22	7,132843E+22	1,480294E+23	1,426578E+23	2,906873E+23
-1864	7,401167E+22	7,401318E+22	7,133073E+22	7,132930E+22	1,480248E+23	1,426600E+23	2,906849E+23
-1863	7,401518E+22	7,401460E+22	7,133005E+22	7,133099E+22	1,480298E+23	1,426610E+23	2,906908E+23
-1862	7,401500E+22	7,401424E+22	7,133061E+22	7,132946E+22	1,480292E+23	1,426601E+23	2,906893E+23
-1861	7,401278E+22	7,401436E+22	7,133073E+22	7,133171E+22	1,480271E+23	1,426624E+23	2,906896E+23
-1860	7,401687E+22	7,401608E+22	7,133031E+22	7,133173E+22	1,480329E+23	1,426620E+23	2,906950E+23
-1859	7,401456E+22	7,401500E+22	7,133182E+22	7,133000E+22	1,480296E+23	1,426618E+23	2,906914E+23
-1858	7,401482E+22	7,401550E+22	7,133174E+22	7,133182E+22	1,480303E+23	1,426636E+23	2,906939E+23
-1857	7,401781E+22	7,401623E+22	7,133141E+22	7,133099E+22	1,480340E+23	1,426624E+23	2,906964E+23
-1856	7,401323E+22	7,401507E+22	7,133217E+22	7,133115E+22	1,480283E+23	1,426633E+23	2,906916E+23
-1855	7,401509E+22	7,401623E+22	7,133114E+22	7,133252E+22	1,480313E+23	1,426637E+23	2,906950E+23
-1854	7,401589E+22	7,401536E+22	7,133112E+22	7,133016E+22	1,480312E+23	1,426613E+23	2,906925E+23
-1853	7,401277E+22	7,401382E+22	7,133096E+22	7,133075E+22	1,480266E+23	1,426617E+23	2,906883E+23
-1852	7,401672E+22	7,401498E+22	7,132997E+22	7,133077E+22	1,480317E+23	1,426607E+23	2,906924E+23
-1851	7,401467E+22	7,401391E+22	7,133048E+22	7,132861E+22	1,480286E+23	1,426591E+23	2,906877E+23
-1850	7,401282E+22	7,401439E+22	7,132969E+22	7,133023E+22	1,480272E+23	1,426599E+23	2,906871E+23
-1849	7,401620E+22	7,401562E+22	7,132906E+22	7,132988E+22	1,480318E+23	1,426589E+23	2,906908E+23
-1848	7,401201E+22	7,401378E+22	7,133040E+22	7,132902E+22	1,480258E+23	1,426594E+23	2,906852E+23
-1847	7,401338E+22	7,401453E+22	7,133029E+22	7,133041E+22	1,480279E+23	1,426607E+23	2,906886E+23
-1846	7,401593E+22	7,401432E+22	7,133057E+22	7,132918E+22	1,480303E+23	1,426598E+23	2,906900E+23
-1845	7,401232E+22	7,401314E+22	7,133081E+22	7,133046E+22	1,480255E+23	1,426613E+23	2,906867E+23
-1844	7,401580E+22	7,401527E+22	7,133019E+22	7,133205E+22	1,480311E+23	1,426622E+23	2,906933E+23
-1843	7,401525E+22	7,401505E+22	7,133108E+22	7,133054E+22	1,480303E+23	1,426616E+23	2,906919E+23
-1842	7,401328E+22	7,401514E+22	7,133123E+22	7,133170E+22	1,480284E+23	1,426629E+23	2,906913E+23
-1841	7,401800E+22	7,401670E+22	7,133127E+22	7,133191E+22	1,480347E+23	1,426632E+23	2,906979E+23
-1840	7,401501E+22	7,401520E+22	7,133288E+22	7,133073E+22	1,480302E+23	1,426636E+23	2,906938E+23
-1839	7,401497E+22	7,401631E+22	7,133257E+22	7,133243E+22	1,480313E+23	1,426650E+23	2,906963E+23
-1838	7,401775E+22	7,401705E+22	7,133224E+22	7,133199E+22	1,480348E+23	1,426642E+23	2,906990E+23
-1837	7,401337E+22	7,401511E+22	7,133242E+22	7,133210E+22	1,480285E+23	1,426645E+23	2,906930E+23
-1836	7,401576E+22	7,401613E+22	7,133179E+22	7,133284E+22	1,480319E+23	1,426646E+23	2,906965E+23
-1835	7,401649E+22	7,401528E+22	7,133195E+22	7,133069E+22	1,480318E+23	1,426626E+23	2,906944E+23
-1834	7,401348E+22	7,401413E+22	7,133123E+22	7,133079E+22	1,480276E+23	1,426620E+23	2,906896E+23
-1833	7,401733E+22	7,401575E+22	7,133010E+22	7,133142E+22	1,480331E+23	1,426615E+23	2,906946E+23
-1832	7,401437E+22	7,401453E+22	7,133075E+22	7,132967E+22	1,480289E+23	1,426604E+23	2,906893E+23
-1831	7,401269E+22	7,401507E+22	7,133027E+22	7,133048E+22	1,480278E+23	1,426607E+23	2,906885E+23
-1830	7,401637E+22	7,401588E+22	7,133022E+22	7,133013E+22	1,480323E+23	1,426604E+23	2,906926E+23
-1829	7,401273E+22	7,401336E+22	7,133106E+22	7,132955E+22	1,480261E+23	1,426606E+23	2,906867E+23
-1828	7,401430E+22	7,401442E+22	7,133106E+22	7,133104E+22	1,480287E+23	1,426621E+23	2,906908E+23
-1827	7,401622E+22	7,401495E+22	7,133115E+22	7,133058E+22	1,480312E+23	1,426617E+23	2,906929E+23
-1826	7,401258E+22	7,401419E+22	7,133086E+22	7,133119E+22	1,480268E+23	1,426620E+23	2,906888E+23
-1825	7,401650E+22	7,401634E+22	7,133064E+22	7,133282E+22	1,480328E+23	1,426635E+23	2,906963E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1824	7,401567E+22	7,401550E+22	7,133209E+22	7,133117E+22	1,480312E+23	1,426633E+23	2,906944E+23
-1823	7,401400E+22	7,401564E+22	7,133252E+22	7,133166E+22	1,480296E+23	1,426642E+23	2,906938E+23
-1822	7,401861E+22	7,401722E+22	7,133272E+22	7,133247E+22	1,480358E+23	1,426652E+23	2,907010E+23
-1821	7,401525E+22	7,401540E+22	7,133334E+22	7,133194E+22	1,480307E+23	1,426653E+23	2,906959E+23
-1820	7,401506E+22	7,401666E+22	7,133310E+22	7,133353E+22	1,480317E+23	1,426666E+23	2,906984E+23
-1819	7,401771E+22	7,401732E+22	7,133283E+22	7,133314E+22	1,480350E+23	1,426660E+23	2,907010E+23
-1818	7,401389E+22	7,401511E+22	7,133260E+22	7,133210E+22	1,480290E+23	1,426647E+23	2,906937E+23
-1817	7,401707E+22	7,401627E+22	7,133208E+22	7,133302E+22	1,480333E+23	1,426651E+23	2,906984E+23
-1816	7,401707E+22	7,401542E+22	7,133226E+22	7,133115E+22	1,480325E+23	1,426634E+23	2,906959E+23
-1815	7,401363E+22	7,401518E+22	7,133155E+22	7,133092E+22	1,480288E+23	1,426625E+23	2,906913E+23
-1814	7,401721E+22	7,401692E+22	7,133090E+22	7,133189E+22	1,480341E+23	1,426628E+23	2,906969E+23
-1813	7,401428E+22	7,401481E+22	7,133133E+22	7,133034E+22	1,480291E+23	1,426617E+23	2,906908E+23
-1812	7,401302E+22	7,401501E+22	7,133146E+22	7,133089E+22	1,480280E+23	1,426623E+23	2,906904E+23
-1811	7,401667E+22	7,401574E+22	7,133142E+22	7,133107E+22	1,480324E+23	1,426625E+23	2,906949E+23
-1810	7,401329E+22	7,401342E+22	7,133143E+22	7,133023E+22	1,480267E+23	1,426617E+23	2,906884E+23
-1809	7,401508E+22	7,401508E+22	7,133107E+22	7,133230E+22	1,480302E+23	1,426634E+23	2,906935E+23
-1808	7,401632E+22	7,401556E+22	7,133135E+22	7,133184E+22	1,480319E+23	1,426632E+23	2,906951E+23
-1807	7,401307E+22	7,401512E+22	7,133146E+22	7,133134E+22	1,480282E+23	1,426628E+23	2,906910E+23
-1806	7,401732E+22	7,401700E+22	7,133196E+22	7,133278E+22	1,480343E+23	1,426647E+23	2,906991E+23
-1805	7,401661E+22	7,401561E+22	7,133305E+22	7,133155E+22	1,480322E+23	1,426646E+23	2,906968E+23
-1804	7,401475E+22	7,401599E+22	7,133371E+22	7,133230E+22	1,480307E+23	1,426660E+23	2,906968E+23
-1803	7,401838E+22	7,401804E+22	7,133368E+22	7,133394E+22	1,480364E+23	1,426676E+23	2,907040E+23
-1802	7,401522E+22	7,401610E+22	7,133369E+22	7,133294E+22	1,480313E+23	1,426666E+23	2,906979E+23
-1801	7,401558E+22	7,401702E+22	7,133341E+22	7,133444E+22	1,480326E+23	1,426679E+23	2,907005E+23
-1800	7,401804E+22	7,401717E+22	7,133344E+22	7,133381E+22	1,480352E+23	1,426673E+23	2,907025E+23
-1799	7,401480E+22	7,401531E+22	7,133311E+22	7,133191E+22	1,480301E+23	1,426650E+23	2,906951E+23
-1798	7,401770E+22	7,401679E+22	7,133270E+22	7,133321E+22	1,480345E+23	1,426659E+23	2,907004E+23
-1797	7,401721E+22	7,401599E+22	7,133223E+22	7,133191E+22	1,480332E+23	1,426641E+23	2,906973E+23
-1796	7,401364E+22	7,401571E+22	7,133208E+22	7,133146E+22	1,480293E+23	1,426635E+23	2,906929E+23
-1795	7,401682E+22	7,401732E+22	7,133186E+22	7,133259E+22	1,480341E+23	1,426645E+23	2,906986E+23
-1794	7,401462E+22	7,401471E+22	7,133200E+22	7,133045E+22	1,480293E+23	1,426624E+23	2,906918E+23
-1793	7,401400E+22	7,401492E+22	7,133202E+22	7,133154E+22	1,480289E+23	1,426636E+23	2,906925E+23
-1792	7,401703E+22	7,401579E+22	7,133193E+22	7,133222E+22	1,480328E+23	1,426642E+23	2,906970E+23
-1791	7,401371E+22	7,401437E+22	7,133166E+22	7,133084E+22	1,480281E+23	1,426625E+23	2,906906E+23
-1790	7,401555E+22	7,401621E+22	7,133175E+22	7,133296E+22	1,480318E+23	1,426647E+23	2,906965E+23
-1789	7,401688E+22	7,401610E+22	7,133195E+22	7,133243E+22	1,480330E+23	1,426644E+23	2,906974E+23
-1788	7,401395E+22	7,401545E+22	7,133291E+22	7,133155E+22	1,480294E+23	1,426645E+23	2,906939E+23
-1787	7,401775E+22	7,401746E+22	7,133354E+22	7,133357E+22	1,480352E+23	1,426671E+23	2,907023E+23
-1786	7,401694E+22	7,401603E+22	7,133377E+22	7,133241E+22	1,480330E+23	1,426662E+23	2,906992E+23
-1785	7,401506E+22	7,401674E+22	7,133397E+22	7,133388E+22	1,480318E+23	1,426679E+23	2,906997E+23
-1784	7,401811E+22	7,401831E+22	7,133398E+22	7,133540E+22	1,480364E+23	1,426694E+23	2,907058E+23
-1783	7,401557E+22	7,401643E+22	7,133401E+22	7,133318E+22	1,480320E+23	1,426672E+23	2,906992E+23
-1782	7,401658E+22	7,401721E+22	7,133415E+22	7,133439E+22	1,480338E+23	1,426685E+23	2,907023E+23
-1781	7,401905E+22	7,401705E+22	7,133370E+22	7,133396E+22	1,480361E+23	1,426677E+23	2,907038E+23
-1780	7,401559E+22	7,401578E+22	7,133374E+22	7,133208E+22	1,480314E+23	1,426658E+23	2,906972E+23
-1779	7,401746E+22	7,401785E+22	7,133336E+22	7,133394E+22	1,480353E+23	1,426673E+23	2,907026E+23
-1778	7,401700E+22	7,401676E+22	7,133261E+22	7,133233E+22	1,480338E+23	1,426649E+23	2,906987E+23
-1777	7,401389E+22	7,401612E+22	7,133272E+22	7,133218E+22	1,480300E+23	1,426649E+23	2,906949E+23
-1776	7,401677E+22	7,401703E+22	7,133290E+22	7,133336E+22	1,480338E+23	1,426663E+23	2,907001E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1775	7,401524E+22	7,401470E+22	7,133279E+22	7,133081E+22	1,480299E+23	1,426636E+23	2,906935E+23
-1774	7,401467E+22	7,401526E+22	7,133263E+22	7,133234E+22	1,480299E+23	1,426650E+23	2,906949E+23
-1773	7,401739E+22	7,401620E+22	7,133183E+22	7,133343E+22	1,480336E+23	1,426653E+23	2,906988E+23
-1772	7,401434E+22	7,401497E+22	7,133214E+22	7,133146E+22	1,480293E+23	1,426636E+23	2,906929E+23
-1771	7,401580E+22	7,401694E+22	7,133274E+22	7,133342E+22	1,480327E+23	1,426662E+23	2,906989E+23
-1770	7,401771E+22	7,401654E+22	7,133279E+22	7,133247E+22	1,480343E+23	1,426653E+23	2,906995E+23
-1769	7,401500E+22	7,401589E+22	7,133373E+22	7,133225E+22	1,480309E+23	1,426660E+23	2,906969E+23
-1768	7,401759E+22	7,401795E+22	7,133446E+22	7,133488E+22	1,480355E+23	1,426693E+23	2,907049E+23
-1767	7,401698E+22	7,401701E+22	7,133433E+22	7,133338E+22	1,480340E+23	1,426677E+23	2,907017E+23
-1766	7,401530E+22	7,401739E+22	7,133474E+22	7,133480E+22	1,480327E+23	1,426695E+23	2,907022E+23
-1765	7,401860E+22	7,401829E+22	7,133442E+22	7,133613E+22	1,480369E+23	1,426705E+23	2,907074E+23
-1764	7,401678E+22	7,401624E+22	7,133491E+22	7,133324E+22	1,480330E+23	1,426681E+23	2,907012E+23
-1763	7,401727E+22	7,401751E+22	7,133501E+22	7,133474E+22	1,480348E+23	1,426698E+23	2,907045E+23
-1762	7,401953E+22	7,401764E+22	7,133384E+22	7,133431E+22	1,480372E+23	1,426681E+23	2,907053E+23
-1761	7,401582E+22	7,401673E+22	7,133377E+22	7,133301E+22	1,480326E+23	1,426668E+23	2,906993E+23
-1760	7,401683E+22	7,401832E+22	7,133397E+22	7,133483E+22	1,480351E+23	1,426688E+23	2,907040E+23
-1759	7,401706E+22	7,401706E+22	7,133334E+22	7,133241E+22	1,480341E+23	1,426658E+23	2,906999E+23
-1758	7,401460E+22	7,401605E+22	7,133375E+22	7,133243E+22	1,480307E+23	1,426662E+23	2,906968E+23
-1757	7,401746E+22	7,401668E+22	7,133328E+22	7,133410E+22	1,480341E+23	1,426674E+23	2,907015E+23
-1756	7,401601E+22	7,401496E+22	7,133328E+22	7,133157E+22	1,480310E+23	1,426649E+23	2,906958E+23
-1755	7,401481E+22	7,401631E+22	7,133306E+22	7,133338E+22	1,480311E+23	1,426664E+23	2,906976E+23
-1754	7,401773E+22	7,401697E+22	7,133204E+22	7,133387E+22	1,480347E+23	1,426659E+23	2,907006E+23
-1753	7,401512E+22	7,401575E+22	7,133278E+22	7,133201E+22	1,480309E+23	1,426648E+23	2,906957E+23
-1752	7,401608E+22	7,401716E+22	7,133401E+22	7,133395E+22	1,480332E+23	1,426680E+23	2,907012E+23
-1751	7,401821E+22	7,401702E+22	7,133386E+22	7,133288E+22	1,480352E+23	1,426667E+23	2,907020E+23
-1750	7,401540E+22	7,401658E+22	7,133470E+22	7,133339E+22	1,480320E+23	1,426681E+23	2,907001E+23
-1749	7,401754E+22	7,401825E+22	7,133471E+22	7,133636E+22	1,480358E+23	1,426711E+23	2,907069E+23
-1748	7,401752E+22	7,401714E+22	7,133501E+22	7,133420E+22	1,480347E+23	1,426692E+23	2,907039E+23
-1747	7,401587E+22	7,401764E+22	7,133552E+22	7,133527E+22	1,480335E+23	1,426708E+23	2,907043E+23
-1746	7,401974E+22	7,401828E+22	7,133478E+22	7,133606E+22	1,480380E+23	1,426708E+23	2,907089E+23
-1745	7,401805E+22	7,401684E+22	7,133514E+22	7,133366E+22	1,480349E+23	1,426688E+23	2,907037E+23
-1744	7,401720E+22	7,401833E+22	7,133556E+22	7,133548E+22	1,480355E+23	1,426710E+23	2,907066E+23
-1743	7,401938E+22	7,401888E+22	7,133432E+22	7,133474E+22	1,480383E+23	1,426691E+23	2,907073E+23
-1742	7,401580E+22	7,401750E+22	7,133476E+22	7,133360E+22	1,480333E+23	1,426684E+23	2,907017E+23
-1741	7,401672E+22	7,401817E+22	7,133477E+22	7,133552E+22	1,480349E+23	1,426703E+23	2,907052E+23
-1740	7,401786E+22	7,401656E+22	7,133447E+22	7,133284E+22	1,480344E+23	1,426673E+23	2,907017E+23
-1739	7,401501E+22	7,401599E+22	7,133447E+22	7,133325E+22	1,480310E+23	1,426677E+23	2,906987E+23
-1738	7,401798E+22	7,401694E+22	7,133308E+22	7,133495E+22	1,480349E+23	1,426680E+23	2,907029E+23
-1737	7,401665E+22	7,401576E+22	7,133286E+22	7,133256E+22	1,480324E+23	1,426654E+23	2,906978E+23
-1736	7,401470E+22	7,401689E+22	7,133350E+22	7,133396E+22	1,480316E+23	1,426675E+23	2,906991E+23
-1735	7,401830E+22	7,401767E+22	7,133283E+22	7,133364E+22	1,480360E+23	1,426665E+23	2,907024E+23
-1734	7,401606E+22	7,401619E+22	7,133410E+22	7,133215E+22	1,480322E+23	1,426662E+23	2,906985E+23
-1733	7,401644E+22	7,401734E+22	7,133493E+22	7,133482E+22	1,480338E+23	1,426698E+23	2,907035E+23
-1732	7,401870E+22	7,401744E+22	7,133486E+22	7,133394E+22	1,480361E+23	1,426688E+23	2,907050E+23
-1731	7,401536E+22	7,401737E+22	7,133555E+22	7,133471E+22	1,480327E+23	1,426703E+23	2,907030E+23
-1730	7,401800E+22	7,401856E+22	7,133509E+22	7,133716E+22	1,480366E+23	1,426722E+23	2,907088E+23
-1729	7,401861E+22	7,401753E+22	7,133543E+22	7,133490E+22	1,480361E+23	1,426703E+23	2,907065E+23
-1728	7,401651E+22	7,401781E+22	7,133642E+22	7,133578E+22	1,480343E+23	1,426722E+23	2,907065E+23
-1727	7,402046E+22	7,401899E+22	7,133537E+22	7,133625E+22	1,480394E+23	1,426716E+23	2,907111E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1726	7,401842E+22	7,401795E+22	7,133575E+22	7,133443E+22	1,480364E+23	1,426702E+23	2,907066E+23
-1725	7,401684E+22	7,401894E+22	7,133586E+22	7,133645E+22	1,480358E+23	1,426723E+23	2,907081E+23
-1724	7,401950E+22	7,401901E+22	7,133524E+22	7,133520E+22	1,480385E+23	1,426704E+23	2,907089E+23
-1723	7,401602E+22	7,401751E+22	7,133582E+22	7,133403E+22	1,480335E+23	1,426699E+23	2,907034E+23
-1722	7,401748E+22	7,401760E+22	7,133513E+22	7,133573E+22	1,480351E+23	1,426709E+23	2,907059E+23
-1721	7,401878E+22	7,401673E+22	7,133447E+22	7,133364E+22	1,480355E+23	1,426681E+23	2,907036E+23
-1720	7,401506E+22	7,401657E+22	7,133460E+22	7,133416E+22	1,480316E+23	1,426688E+23	2,907004E+23
-1719	7,401813E+22	7,401796E+22	7,133317E+22	7,133527E+22	1,480361E+23	1,426684E+23	2,907045E+23
-1718	7,401713E+22	7,401677E+22	7,133365E+22	7,133288E+22	1,480339E+23	1,426665E+23	2,907004E+23
-1717	7,401501E+22	7,401708E+22	7,133448E+22	7,133426E+22	1,480321E+23	1,426687E+23	2,907008E+23
-1716	7,401916E+22	7,401763E+22	7,133438E+22	7,133391E+22	1,480368E+23	1,426683E+23	2,907051E+23
-1715	7,401635E+22	7,401662E+22	7,133541E+22	7,133318E+22	1,480330E+23	1,426686E+23	2,907016E+23
-1714	7,401657E+22	7,401770E+22	7,133527E+22	7,133613E+22	1,480343E+23	1,426714E+23	2,907057E+23
-1713	7,401909E+22	7,401814E+22	7,133492E+22	7,133548E+22	1,480372E+23	1,426704E+23	2,907076E+23
-1712	7,401550E+22	7,401766E+22	7,133612E+22	7,133569E+22	1,480332E+23	1,426718E+23	2,907050E+23
-1711	7,401895E+22	7,401897E+22	7,133567E+22	7,133720E+22	1,480379E+23	1,426729E+23	2,907108E+23
-1710	7,401994E+22	7,401813E+22	7,133626E+22	7,133508E+22	1,480381E+23	1,426713E+23	2,907094E+23
-1709	7,401700E+22	7,401838E+22	7,133699E+22	7,133639E+22	1,480354E+23	1,426734E+23	2,907087E+23
-1708	7,402088E+22	7,401981E+22	7,133626E+22	7,133687E+22	1,480407E+23	1,426731E+23	2,907138E+23
-1707	7,401810E+22	7,401888E+22	7,133674E+22	7,133523E+22	1,480370E+23	1,426720E+23	2,907090E+23
-1706	7,401680E+22	7,401906E+22	7,133648E+22	7,133699E+22	1,480359E+23	1,426735E+23	2,907093E+23
-1705	7,402011E+22	7,401891E+22	7,133572E+22	7,133579E+22	1,480390E+23	1,426715E+23	2,907105E+23
-1704	7,401629E+22	7,401706E+22	7,133655E+22	7,133468E+22	1,480333E+23	1,426712E+23	2,907046E+23
-1703	7,401802E+22	7,401781E+22	7,133527E+22	7,133618E+22	1,480358E+23	1,426714E+23	2,907073E+23
-1702	7,401925E+22	7,401752E+22	7,133451E+22	7,133443E+22	1,480368E+23	1,426689E+23	2,907057E+23
-1701	7,401502E+22	7,401712E+22	7,133463E+22	7,133484E+22	1,480321E+23	1,426695E+23	2,907016E+23
-1700	7,401874E+22	7,401828E+22	7,133405E+22	7,133525E+22	1,480370E+23	1,426693E+23	2,907063E+23
-1699	7,401762E+22	7,401724E+22	7,133493E+22	7,133297E+22	1,480349E+23	1,426679E+23	2,907028E+23
-1698	7,401570E+22	7,401713E+22	7,133534E+22	7,133462E+22	1,480328E+23	1,426700E+23	2,907028E+23
-1697	7,401970E+22	7,401827E+22	7,133493E+22	7,133509E+22	1,480380E+23	1,426700E+23	2,907080E+23
-1696	7,401611E+22	7,401734E+22	7,133617E+22	7,133474E+22	1,480334E+23	1,426709E+23	2,907044E+23
-1695	7,401670E+22	7,401848E+22	7,133577E+22	7,133709E+22	1,480352E+23	1,426729E+23	2,907080E+23
-1694	7,401979E+22	7,401887E+22	7,133577E+22	7,133631E+22	1,480387E+23	1,426721E+23	2,907107E+23
-1693	7,401629E+22	7,401776E+22	7,133691E+22	7,133622E+22	1,480340E+23	1,426731E+23	2,907072E+23
-1692	7,402020E+22	7,401903E+22	7,133681E+22	7,133740E+22	1,480392E+23	1,426742E+23	2,907134E+23
-1691	7,402046E+22	7,401903E+22	7,133723E+22	7,133578E+22	1,480395E+23	1,426730E+23	2,907125E+23
-1690	7,401714E+22	7,401898E+22	7,133718E+22	7,133717E+22	1,480361E+23	1,426744E+23	2,907105E+23
-1689	7,402088E+22	7,402050E+22	7,133652E+22	7,133778E+22	1,480414E+23	1,426743E+23	2,907157E+23
-1688	7,401790E+22	7,401895E+22	7,133762E+22	7,133589E+22	1,480369E+23	1,426735E+23	2,907104E+23
-1687	7,401725E+22	7,401887E+22	7,133711E+22	7,133701E+22	1,480361E+23	1,426741E+23	2,907102E+23
-1686	7,402098E+22	7,401905E+22	7,133627E+22	7,133626E+22	1,480400E+23	1,426725E+23	2,907125E+23
-1685	7,401663E+22	7,401721E+22	7,133661E+22	7,133542E+22	1,480338E+23	1,426720E+23	2,907059E+23
-1684	7,401854E+22	7,401836E+22	7,133559E+22	7,133667E+22	1,480369E+23	1,426723E+23	2,907092E+23
-1683	7,401930E+22	7,401858E+22	7,133517E+22	7,133489E+22	1,480379E+23	1,426701E+23	2,907079E+23
-1682	7,401534E+22	7,401751E+22	7,133524E+22	7,133503E+22	1,480328E+23	1,426703E+23	2,907031E+23
-1681	7,401938E+22	7,401866E+22	7,133495E+22	7,133563E+22	1,480380E+23	1,426706E+23	2,907086E+23
-1680	7,401778E+22	7,401736E+22	7,133623E+22	7,133385E+22	1,480351E+23	1,426701E+23	2,907052E+23
-1679	7,401585E+22	7,401763E+22	7,133600E+22	7,133564E+22	1,480335E+23	1,426716E+23	2,907051E+23
-1678	7,401988E+22	7,401916E+22	7,133535E+22	7,133657E+22	1,480390E+23	1,426719E+23	2,907110E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1677	7,401614E+22	7,401760E+22	7,133652E+22	7,133597E+22	1,480337E+23	1,426725E+23	2,907062E+23
-1676	7,401782E+22	7,401849E+22	7,133665E+22	7,133744E+22	1,480363E+23	1,426741E+23	2,907104E+23
-1675	7,402085E+22	7,401920E+22	7,133683E+22	7,133640E+22	1,480401E+23	1,426732E+23	2,907133E+23
-1674	7,401743E+22	7,401802E+22	7,133746E+22	7,133645E+22	1,480354E+23	1,426739E+23	2,907094E+23
-1673	7,402093E+22	7,402002E+22	7,133718E+22	7,133809E+22	1,480410E+23	1,426753E+23	2,907162E+23
-1672	7,402011E+22	7,402002E+22	7,133804E+22	7,133682E+22	1,480401E+23	1,426749E+23	2,907150E+23
-1671	7,401695E+22	7,401981E+22	7,133789E+22	7,133780E+22	1,480368E+23	1,426757E+23	2,907125E+23
-1670	7,402108E+22	7,402098E+22	7,133743E+22	7,133843E+22	1,480421E+23	1,426759E+23	2,907179E+23
-1669	7,401822E+22	7,401853E+22	7,133841E+22	7,133654E+22	1,480368E+23	1,426750E+23	2,907117E+23
-1668	7,401824E+22	7,401844E+22	7,133785E+22	7,133744E+22	1,480367E+23	1,426753E+23	2,907120E+23
-1667	7,402130E+22	7,401959E+22	7,133665E+22	7,133700E+22	1,480409E+23	1,426737E+23	2,907145E+23
-1666	7,401692E+22	7,401775E+22	7,133628E+22	7,133611E+22	1,480347E+23	1,426724E+23	2,907071E+23
-1665	7,401888E+22	7,401914E+22	7,133558E+22	7,133709E+22	1,480380E+23	1,426727E+23	2,907107E+23
-1664	7,401940E+22	7,401901E+22	7,133611E+22	7,133514E+22	1,480384E+23	1,426713E+23	2,907097E+23
-1663	7,401590E+22	7,401776E+22	7,133618E+22	7,133499E+22	1,480337E+23	1,426712E+23	2,907048E+23
-1662	7,401987E+22	7,401926E+22	7,133595E+22	7,133634E+22	1,480391E+23	1,426723E+23	2,907114E+23
-1661	7,401779E+22	7,401772E+22	7,133692E+22	7,133517E+22	1,480355E+23	1,426721E+23	2,907076E+23
-1660	7,401622E+22	7,401794E+22	7,133674E+22	7,133670E+22	1,480342E+23	1,426734E+23	2,907076E+23
-1659	7,402012E+22	7,401986E+22	7,133626E+22	7,133747E+22	1,480400E+23	1,426737E+23	2,907137E+23
-1658	7,401708E+22	7,401764E+22	7,133694E+22	7,133638E+22	1,480347E+23	1,426733E+23	2,907080E+23
-1657	7,401904E+22	7,401877E+22	7,133725E+22	7,133775E+22	1,480378E+23	1,426750E+23	2,907128E+23
-1656	7,402145E+22	7,401974E+22	7,133786E+22	7,133711E+22	1,480412E+23	1,426750E+23	2,907162E+23
-1655	7,401770E+22	7,401898E+22	7,133798E+22	7,133718E+22	1,480367E+23	1,426752E+23	2,907118E+23
-1654	7,402083E+22	7,402131E+22	7,133773E+22	7,133919E+22	1,480421E+23	1,426769E+23	2,907191E+23
-1653	7,401986E+22	7,402031E+22	7,133872E+22	7,133781E+22	1,480402E+23	1,426765E+23	2,907167E+23
-1652	7,401761E+22	7,401951E+22	7,133892E+22	7,133810E+22	1,480371E+23	1,426770E+23	2,907141E+23
-1651	7,402171E+22	7,402099E+22	7,133840E+22	7,133871E+22	1,480427E+23	1,426771E+23	2,907198E+23
-1650	7,401911E+22	7,401837E+22	7,133849E+22	7,133706E+22	1,480375E+23	1,426755E+23	2,907130E+23
-1649	7,401891E+22	7,401911E+22	7,133769E+22	7,133817E+22	1,480380E+23	1,426759E+23	2,907139E+23
-1648	7,402119E+22	7,402044E+22	7,133704E+22	7,133777E+22	1,480416E+23	1,426748E+23	2,907164E+23
-1647	7,401703E+22	7,401861E+22	7,133675E+22	7,133628E+22	1,480356E+23	1,426730E+23	2,907087E+23
-1646	7,401925E+22	7,401991E+22	7,133651E+22	7,133727E+22	1,480392E+23	1,426738E+23	2,907129E+23
-1645	7,401966E+22	7,401888E+22	7,133724E+22	7,133566E+22	1,480385E+23	1,426729E+23	2,907114E+23
-1644	7,401665E+22	7,401760E+22	7,133734E+22	7,133570E+22	1,480342E+23	1,426730E+23	2,907073E+23
-1643	7,401984E+22	7,401978E+22	7,133669E+22	7,133745E+22	1,480396E+23	1,426741E+23	2,907138E+23
-1642	7,401798E+22	7,401793E+22	7,133688E+22	7,133640E+22	1,480359E+23	1,426733E+23	2,907092E+23
-1641	7,401695E+22	7,401828E+22	7,133685E+22	7,133744E+22	1,480352E+23	1,426743E+23	2,907095E+23
-1640	7,402075E+22	7,402003E+22	7,133709E+22	7,133790E+22	1,480408E+23	1,426750E+23	2,907158E+23
-1639	7,401820E+22	7,401816E+22	7,133758E+22	7,133642E+22	1,480364E+23	1,426740E+23	2,907104E+23
-1638	7,401989E+22	7,401995E+22	7,133792E+22	7,133829E+22	1,480398E+23	1,426762E+23	2,907161E+23
-1637	7,402147E+22	7,402069E+22	7,133859E+22	7,133821E+22	1,480422E+23	1,426768E+23	2,907190E+23
-1636	7,401794E+22	7,401973E+22	7,133903E+22	7,133806E+22	1,480377E+23	1,426771E+23	2,907148E+23
-1635	7,402063E+22	7,402207E+22	7,133904E+22	7,133991E+22	1,480427E+23	1,426789E+23	2,907216E+23
-1634	7,402042E+22	7,402008E+22	7,133944E+22	7,133848E+22	1,480405E+23	1,426779E+23	2,907184E+23
-1633	7,401864E+22	7,401924E+22	7,133949E+22	7,133865E+22	1,480379E+23	1,426781E+23	2,907160E+23
-1632	7,402218E+22	7,402104E+22	7,133901E+22	7,133961E+22	1,480432E+23	1,426786E+23	2,907218E+23
-1631	7,401949E+22	7,401908E+22	7,133831E+22	7,133769E+22	1,480386E+23	1,426760E+23	2,907146E+23
-1630	7,401908E+22	7,402030E+22	7,133765E+22	7,133879E+22	1,480394E+23	1,426764E+23	2,907158E+23
-1629	7,402124E+22	7,402082E+22	7,133757E+22	7,133815E+22	1,480421E+23	1,426757E+23	2,907178E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1628	7,401780E+22	7,401851E+22	7,133783E+22	7,133611E+22	1,480363E+23	1,426739E+23	2,907102E+23
-1627	7,401956E+22	7,402021E+22	7,133781E+22	7,133737E+22	1,480398E+23	1,426752E+23	2,907149E+23
-1626	7,402015E+22	7,401885E+22	7,133762E+22	7,133646E+22	1,480390E+23	1,426741E+23	2,907131E+23
-1625	7,401694E+22	7,401802E+22	7,133753E+22	7,133682E+22	1,480350E+23	1,426743E+23	2,907093E+23
-1624	7,401969E+22	7,402034E+22	7,133730E+22	7,133872E+22	1,480400E+23	1,426760E+23	2,907160E+23
-1623	7,401841E+22	7,401846E+22	7,133723E+22	7,133697E+22	1,480369E+23	1,426742E+23	2,907111E+23
-1622	7,401786E+22	7,401904E+22	7,133746E+22	7,133785E+22	1,480369E+23	1,426753E+23	2,907122E+23
-1621	7,402155E+22	7,402020E+22	7,133803E+22	7,133847E+22	1,480418E+23	1,426765E+23	2,907182E+23
-1620	7,401914E+22	7,401867E+22	7,133860E+22	7,133702E+22	1,480378E+23	1,426756E+23	2,907134E+23
-1619	7,401981E+22	7,402122E+22	7,133890E+22	7,133918E+22	1,480410E+23	1,426781E+23	2,907191E+23
-1618	7,402153E+22	7,402120E+22	7,133901E+22	7,133932E+22	1,480427E+23	1,426783E+23	2,907211E+23
-1617	7,401846E+22	7,401989E+22	7,133978E+22	7,133880E+22	1,480383E+23	1,426786E+23	2,907169E+23
-1616	7,402104E+22	7,402187E+22	7,134019E+22	7,134052E+22	1,480429E+23	1,426807E+23	2,907236E+23
-1615	7,402132E+22	7,402010E+22	7,133991E+22	7,133885E+22	1,480414E+23	1,426788E+23	2,907202E+23
-1614	7,401949E+22	7,402007E+22	7,133956E+22	7,133937E+22	1,480396E+23	1,426789E+23	2,907185E+23
-1613	7,402229E+22	7,402164E+22	7,133917E+22	7,134051E+22	1,480439E+23	1,426797E+23	2,907236E+23
-1612	7,401996E+22	7,401984E+22	7,133884E+22	7,133804E+22	1,480398E+23	1,426769E+23	2,907167E+23
-1611	7,401909E+22	7,402112E+22	7,133867E+22	7,133871E+22	1,480402E+23	1,426774E+23	2,907176E+23
-1610	7,402166E+22	7,402072E+22	7,133830E+22	7,133834E+22	1,480424E+23	1,426766E+23	2,907190E+23
-1609	7,401853E+22	7,401836E+22	7,133869E+22	7,133659E+22	1,480369E+23	1,426753E+23	2,907122E+23
-1608	7,401939E+22	7,402030E+22	7,133867E+22	7,133854E+22	1,480397E+23	1,426772E+23	2,907169E+23
-1607	7,402007E+22	7,401940E+22	7,133762E+22	7,133765E+22	1,480395E+23	1,426753E+23	2,907147E+23
-1606	7,401720E+22	7,401887E+22	7,133741E+22	7,133785E+22	1,480361E+23	1,426753E+23	2,907113E+23
-1605	7,402013E+22	7,402036E+22	7,133779E+22	7,133935E+22	1,480405E+23	1,426771E+23	2,907176E+23
-1604	7,401977E+22	7,401860E+22	7,133808E+22	7,133691E+22	1,480384E+23	1,426750E+23	2,907134E+23
-1603	7,401870E+22	7,401984E+22	7,133866E+22	7,133785E+22	1,480385E+23	1,426765E+23	2,907150E+23
-1602	7,402223E+22	7,402087E+22	7,133862E+22	7,133924E+22	1,480431E+23	1,426779E+23	2,907210E+23
-1601	7,401953E+22	7,401959E+22	7,133941E+22	7,133803E+22	1,480391E+23	1,426774E+23	2,907166E+23
-1600	7,401945E+22	7,402199E+22	7,134021E+22	7,134042E+22	1,480414E+23	1,426806E+23	2,907221E+23
-1599	7,402175E+22	7,402160E+22	7,133986E+22	7,134009E+22	1,480433E+23	1,426799E+23	2,907233E+23
-1598	7,401924E+22	7,402021E+22	7,134050E+22	7,133956E+22	1,480394E+23	1,426801E+23	2,907195E+23
-1597	7,402181E+22	7,402153E+22	7,134097E+22	7,134144E+22	1,480433E+23	1,426824E+23	2,907257E+23
-1596	7,402225E+22	7,402033E+22	7,134023E+22	7,133950E+22	1,480426E+23	1,426797E+23	2,907223E+23
-1595	7,401954E+22	7,402122E+22	7,133985E+22	7,133988E+22	1,480408E+23	1,426797E+23	2,907205E+23
-1594	7,402254E+22	7,402209E+22	7,133911E+22	7,134097E+22	1,480446E+23	1,426801E+23	2,907247E+23
-1593	7,402048E+22	7,402003E+22	7,133945E+22	7,133802E+22	1,480405E+23	1,426775E+23	2,907180E+23
-1592	7,401921E+22	7,402120E+22	7,133990E+22	7,133890E+22	1,480404E+23	1,426788E+23	2,907192E+23
-1591	7,402199E+22	7,402086E+22	7,133886E+22	7,133870E+22	1,480428E+23	1,426776E+23	2,907204E+23
-1590	7,401879E+22	7,401911E+22	7,133890E+22	7,133764E+22	1,480379E+23	1,426765E+23	2,907144E+23
-1589	7,401924E+22	7,402051E+22	7,133906E+22	7,133985E+22	1,480398E+23	1,426789E+23	2,907187E+23
-1588	7,402052E+22	7,401979E+22	7,133815E+22	7,133833E+22	1,480403E+23	1,426765E+23	2,907168E+23
-1587	7,401767E+22	7,401960E+22	7,133834E+22	7,133797E+22	1,480373E+23	1,426763E+23	2,907136E+23
-1586	7,402120E+22	7,402033E+22	7,133840E+22	7,133962E+22	1,480415E+23	1,426780E+23	2,907196E+23
-1585	7,402099E+22	7,401888E+22	7,133904E+22	7,133733E+22	1,480399E+23	1,426764E+23	2,907162E+23
-1584	7,401879E+22	7,402064E+22	7,133981E+22	7,133891E+22	1,480394E+23	1,426787E+23	2,907181E+23
-1583	7,402207E+22	7,402190E+22	7,133912E+22	7,134038E+22	1,480440E+23	1,426795E+23	2,907235E+23
-1582	7,401973E+22	7,402058E+22	7,133996E+22	7,133924E+22	1,480403E+23	1,426792E+23	2,907195E+23
-1581	7,401968E+22	7,402174E+22	7,134123E+22	7,134136E+22	1,480414E+23	1,426826E+23	2,907240E+23
-1580	7,402286E+22	7,402149E+22	7,134076E+22	7,134050E+22	1,480444E+23	1,426813E+23	2,907256E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1579	7,402011E+22	7,402072E+22	7,134119E+22	7,133984E+22	1,480408E+23	1,426810E+23	2,907219E+23
-1578	7,402248E+22	7,402191E+22	7,134088E+22	7,134223E+22	1,480444E+23	1,426831E+23	2,907275E+23
-1577	7,402280E+22	7,402119E+22	7,134048E+22	7,134008E+22	1,480440E+23	1,426806E+23	2,907246E+23
-1576	7,401932E+22	7,402203E+22	7,134078E+22	7,134037E+22	1,480414E+23	1,426811E+23	2,907225E+23
-1575	7,402262E+22	7,402259E+22	7,133983E+22	7,134104E+22	1,480452E+23	1,426809E+23	2,907261E+23
-1574	7,402103E+22	7,402041E+22	7,134022E+22	7,133839E+22	1,480414E+23	1,426786E+23	2,907200E+23
-1573	7,401933E+22	7,402080E+22	7,134086E+22	7,133982E+22	1,480401E+23	1,426807E+23	2,907208E+23
-1572	7,402222E+22	7,402111E+22	7,133927E+22	7,133966E+22	1,480433E+23	1,426789E+23	2,907223E+23
-1571	7,401868E+22	7,401989E+22	7,133923E+22	7,133845E+22	1,480386E+23	1,426777E+23	2,907163E+23
-1570	7,401972E+22	7,402048E+22	7,133904E+22	7,134060E+22	1,480402E+23	1,426796E+23	2,907198E+23
-1569	7,402164E+22	7,401975E+22	7,133878E+22	7,133839E+22	1,480414E+23	1,426772E+23	2,907186E+23
-1568	7,401840E+22	7,401995E+22	7,133953E+22	7,133815E+22	1,480383E+23	1,426777E+23	2,907160E+23
-1567	7,402189E+22	7,402106E+22	7,133901E+22	7,133997E+22	1,480430E+23	1,426790E+23	2,907219E+23
-1566	7,402134E+22	7,402031E+22	7,133954E+22	7,133841E+22	1,480416E+23	1,426779E+23	2,907196E+23
-1565	7,401855E+22	7,402132E+22	7,134085E+22	7,134038E+22	1,480399E+23	1,426812E+23	2,907211E+23
-1564	7,402222E+22	7,402245E+22	7,134012E+22	7,134126E+22	1,480447E+23	1,426814E+23	2,907260E+23
-1563	7,402005E+22	7,402108E+22	7,134122E+22	7,133976E+22	1,480411E+23	1,426810E+23	2,907221E+23
-1562	7,402074E+22	7,402126E+22	7,134182E+22	7,134212E+22	1,480420E+23	1,426839E+23	2,907260E+23
-1561	7,402404E+22	7,402138E+22	7,134137E+22	7,134115E+22	1,480454E+23	1,426825E+23	2,907279E+23
-1560	7,402035E+22	7,402152E+22	7,134170E+22	7,134079E+22	1,480419E+23	1,426825E+23	2,907244E+23
-1559	7,402260E+22	7,402286E+22	7,134076E+22	7,134281E+22	1,480455E+23	1,426836E+23	2,907290E+23
-1558	7,402314E+22	7,402223E+22	7,134070E+22	7,134049E+22	1,480454E+23	1,426812E+23	2,907266E+23
-1557	7,401955E+22	7,402191E+22	7,134187E+22	7,134064E+22	1,480415E+23	1,426825E+23	2,907240E+23
-1556	7,402317E+22	7,402262E+22	7,134084E+22	7,134106E+22	1,480458E+23	1,426819E+23	2,907277E+23
-1555	7,402128E+22	7,402095E+22	7,134116E+22	7,133881E+22	1,480422E+23	1,426800E+23	2,907222E+23
-1554	7,401955E+22	7,402082E+22	7,134096E+22	7,134097E+22	1,480404E+23	1,426819E+23	2,907223E+23
-1553	7,402259E+22	7,402138E+22	7,133966E+22	7,134054E+22	1,480440E+23	1,426802E+23	2,907242E+23
-1552	7,401878E+22	7,402041E+22	7,134000E+22	7,133911E+22	1,480392E+23	1,426791E+23	2,907183E+23
-1551	7,402033E+22	7,402085E+22	7,133945E+22	7,134077E+22	1,480412E+23	1,426802E+23	2,907214E+23
-1550	7,402274E+22	7,402048E+22	7,133934E+22	7,133882E+22	1,480432E+23	1,426782E+23	2,907214E+23
-1549	7,401880E+22	7,402012E+22	7,134057E+22	7,133907E+22	1,480389E+23	1,426796E+23	2,907186E+23
-1548	7,402193E+22	7,402205E+22	7,133972E+22	7,134090E+22	1,480440E+23	1,426806E+23	2,907246E+23
-1547	7,402118E+22	7,402146E+22	7,134037E+22	7,133931E+22	1,480426E+23	1,426797E+23	2,907223E+23
-1546	7,401882E+22	7,402117E+22	7,134142E+22	7,134139E+22	1,480400E+23	1,426828E+23	2,907228E+23
-1545	7,402320E+22	7,402217E+22	7,134116E+22	7,134172E+22	1,480454E+23	1,426829E+23	2,907282E+23
-1544	7,402087E+22	7,402114E+22	7,134228E+22	7,134034E+22	1,480420E+23	1,426826E+23	2,907246E+23
-1543	7,402160E+22	7,402176E+22	7,134196E+22	7,134273E+22	1,480434E+23	1,426847E+23	2,907281E+23
-1542	7,402472E+22	7,402272E+22	7,134134E+22	7,134204E+22	1,480474E+23	1,426834E+23	2,907308E+23
-1541	7,402038E+22	7,402224E+22	7,134244E+22	7,134166E+22	1,480426E+23	1,426841E+23	2,907267E+23
-1540	7,402274E+22	7,402373E+22	7,134165E+22	7,134294E+22	1,480465E+23	1,426846E+23	2,907311E+23
-1539	7,402339E+22	7,402291E+22	7,134202E+22	7,134048E+22	1,480463E+23	1,426825E+23	2,907288E+23
-1538	7,402014E+22	7,402140E+22	7,134271E+22	7,134132E+22	1,480415E+23	1,426840E+23	2,907256E+23
-1537	7,402367E+22	7,402238E+22	7,134161E+22	7,134187E+22	1,480460E+23	1,426835E+23	2,907295E+23
-1536	7,402103E+22	7,402142E+22	7,134164E+22	7,134010E+22	1,480424E+23	1,426817E+23	2,907242E+23
-1535	7,401963E+22	7,402123E+22	7,134063E+22	7,134185E+22	1,480409E+23	1,426825E+23	2,907233E+23
-1534	7,402321E+22	7,402193E+22	7,133959E+22	7,134103E+22	1,480451E+23	1,426806E+23	2,907258E+23
-1533	7,401951E+22	7,402033E+22	7,134081E+22	7,133937E+22	1,480398E+23	1,426802E+23	2,907200E+23
-1532	7,402121E+22	7,402134E+22	7,134012E+22	7,134059E+22	1,480425E+23	1,426807E+23	2,907233E+23
-1531	7,402309E+22	7,402165E+22	7,134024E+22	7,133912E+22	1,480447E+23	1,426794E+23	2,907241E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1530	7,401897E+22	7,402064E+22	7,134110E+22	7,134027E+22	1,480396E+23	1,426814E+23	2,907210E+23
-1529	7,402201E+22	7,402245E+22	7,134079E+22	7,134183E+22	1,480445E+23	1,426826E+23	2,907271E+23
-1528	7,402113E+22	7,402192E+22	7,134175E+22	7,134032E+22	1,480430E+23	1,426821E+23	2,907251E+23
-1527	7,401957E+22	7,402110E+22	7,134205E+22	7,134200E+22	1,480407E+23	1,426841E+23	2,907247E+23
-1526	7,402445E+22	7,402246E+22	7,134162E+22	7,134252E+22	1,480469E+23	1,426841E+23	2,907310E+23
-1525	7,402159E+22	7,402134E+22	7,134294E+22	7,134146E+22	1,480429E+23	1,426844E+23	2,907273E+23
-1524	7,402195E+22	7,402295E+22	7,134213E+22	7,134342E+22	1,480449E+23	1,426856E+23	2,907304E+23
-1523	7,402487E+22	7,402414E+22	7,134198E+22	7,134247E+22	1,480490E+23	1,426844E+23	2,907334E+23
-1522	7,402083E+22	7,402232E+22	7,134312E+22	7,134215E+22	1,480431E+23	1,426853E+23	2,907284E+23
-1521	7,402342E+22	7,402360E+22	7,134295E+22	7,134298E+22	1,480470E+23	1,426859E+23	2,907329E+23
-1520	7,402368E+22	7,402310E+22	7,134323E+22	7,134107E+22	1,480468E+23	1,426843E+23	2,907311E+23
-1519	7,402037E+22	7,402163E+22	7,134282E+22	7,134222E+22	1,480420E+23	1,426850E+23	2,907270E+23
-1518	7,402396E+22	7,402320E+22	7,134146E+22	7,134307E+22	1,480472E+23	1,426845E+23	2,907317E+23
-1517	7,402108E+22	7,402153E+22	7,134205E+22	7,134109E+22	1,480426E+23	1,426831E+23	2,907258E+23
-1516	7,402001E+22	7,402180E+22	7,134098E+22	7,134189E+22	1,480418E+23	1,426829E+23	2,907247E+23
-1515	7,402399E+22	7,402257E+22	7,134046E+22	7,134079E+22	1,480466E+23	1,426812E+23	2,907278E+23
-1514	7,402039E+22	7,402010E+22	7,134146E+22	7,133980E+22	1,480405E+23	1,426813E+23	2,907218E+23
-1513	7,402165E+22	7,402171E+22	7,134109E+22	7,134113E+22	1,480434E+23	1,426822E+23	2,907256E+23
-1512	7,402274E+22	7,402259E+22	7,134113E+22	7,134032E+22	1,480453E+23	1,426814E+23	2,907268E+23
-1511	7,401895E+22	7,402103E+22	7,134143E+22	7,134132E+22	1,480400E+23	1,426828E+23	2,907227E+23
-1510	7,402262E+22	7,402278E+22	7,134129E+22	7,134266E+22	1,480454E+23	1,426840E+23	2,907294E+23
-1509	7,402194E+22	7,402155E+22	7,134282E+22	7,134112E+22	1,480435E+23	1,426839E+23	2,907274E+23
-1508	7,402060E+22	7,402162E+22	7,134255E+22	7,134240E+22	1,480422E+23	1,426850E+23	2,907272E+23
-1507	7,402518E+22	7,402372E+22	7,134220E+22	7,134310E+22	1,480489E+23	1,426853E+23	2,907342E+23
-1506	7,402213E+22	7,402210E+22	7,134326E+22	7,134254E+22	1,480442E+23	1,426858E+23	2,907300E+23
-1505	7,402231E+22	7,402371E+22	7,134318E+22	7,134384E+22	1,480460E+23	1,426870E+23	2,907330E+23
-1504	7,402485E+22	7,402493E+22	7,134342E+22	7,134301E+22	1,480498E+23	1,426864E+23	2,907362E+23
-1503	7,402138E+22	7,402232E+22	7,134396E+22	7,134265E+22	1,480437E+23	1,426866E+23	2,907303E+23
-1502	7,402399E+22	7,402370E+22	7,134350E+22	7,134381E+22	1,480477E+23	1,426873E+23	2,907350E+23
-1501	7,402374E+22	7,402301E+22	7,134381E+22	7,134247E+22	1,480468E+23	1,426863E+23	2,907330E+23
-1500	7,402040E+22	7,402225E+22	7,134255E+22	7,134298E+22	1,480426E+23	1,426855E+23	2,907282E+23
-1499	7,402416E+22	7,402388E+22	7,134162E+22	7,134336E+22	1,480480E+23	1,426850E+23	2,907330E+23
-1498	7,402190E+22	7,402127E+22	7,134226E+22	7,134130E+22	1,480432E+23	1,426836E+23	2,907267E+23
-1497	7,402107E+22	7,402169E+22	7,134189E+22	7,134145E+22	1,480428E+23	1,426833E+23	2,907261E+23
-1496	7,402442E+22	7,402324E+22	7,134153E+22	7,134104E+22	1,480477E+23	1,426826E+23	2,907302E+23
-1495	7,402066E+22	7,402079E+22	7,134179E+22	7,134057E+22	1,480414E+23	1,426824E+23	2,907238E+23
-1494	7,402163E+22	7,402276E+22	7,134152E+22	7,134230E+22	1,480444E+23	1,426838E+23	2,907282E+23
-1493	7,402254E+22	7,402288E+22	7,134225E+22	7,134167E+22	1,480454E+23	1,426839E+23	2,907293E+23
-1492	7,401928E+22	7,402147E+22	7,134220E+22	7,134190E+22	1,480408E+23	1,426841E+23	2,907248E+23
-1491	7,402357E+22	7,402316E+22	7,134235E+22	7,134314E+22	1,480467E+23	1,426855E+23	2,907322E+23
-1490	7,402312E+22	7,402134E+22	7,134335E+22	7,134216E+22	1,480445E+23	1,426855E+23	2,907300E+23
-1489	7,402143E+22	7,402224E+22	7,134321E+22	7,134316E+22	1,480437E+23	1,426864E+23	2,907300E+23
-1488	7,402524E+22	7,402505E+22	7,134291E+22	7,134410E+22	1,480503E+23	1,426870E+23	2,907373E+23
-1487	7,402242E+22	7,402278E+22	7,134364E+22	7,134317E+22	1,480452E+23	1,426868E+23	2,907320E+23
-1486	7,402293E+22	7,402429E+22	7,134398E+22	7,134420E+22	1,480472E+23	1,426882E+23	2,907354E+23
-1485	7,402534E+22	7,402462E+22	7,134469E+22	7,134362E+22	1,480500E+23	1,426883E+23	2,907383E+23
-1484	7,402176E+22	7,402267E+22	7,134448E+22	7,134312E+22	1,480444E+23	1,426876E+23	2,907320E+23
-1483	7,402426E+22	7,402446E+22	7,134392E+22	7,134456E+22	1,480487E+23	1,426885E+23	2,907372E+23
-1482	7,402396E+22	7,402304E+22	7,134382E+22	7,134358E+22	1,480470E+23	1,426874E+23	2,907344E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1481	7,402085E+22	7,402251E+22	7,134311E+22	7,134318E+22	1,480434E+23	1,426863E+23	2,907297E+23
-1480	7,402452E+22	7,402438E+22	7,134250E+22	7,134345E+22	1,480489E+23	1,426859E+23	2,907348E+23
-1479	7,402275E+22	7,402132E+22	7,134270E+22	7,134137E+22	1,480441E+23	1,426841E+23	2,907281E+23
-1478	7,402173E+22	7,402224E+22	7,134241E+22	7,134193E+22	1,480440E+23	1,426843E+23	2,907283E+23
-1477	7,402419E+22	7,402370E+22	7,134237E+22	7,134231E+22	1,480479E+23	1,426847E+23	2,907326E+23
-1476	7,402033E+22	7,402178E+22	7,134211E+22	7,134157E+22	1,480421E+23	1,426837E+23	2,907258E+23
-1475	7,402168E+22	7,402339E+22	7,134233E+22	7,134303E+22	1,480451E+23	1,426854E+23	2,907304E+23
-1474	7,402328E+22	7,402240E+22	7,134297E+22	7,134255E+22	1,480457E+23	1,426855E+23	2,907312E+23
-1473	7,402056E+22	7,402130E+22	7,134317E+22	7,134212E+22	1,480419E+23	1,426853E+23	2,907271E+23
-1472	7,402433E+22	7,402388E+22	7,134321E+22	7,134387E+22	1,480482E+23	1,426871E+23	2,907353E+23
-1471	7,402389E+22	7,402226E+22	7,134345E+22	7,134310E+22	1,480462E+23	1,426866E+23	2,907327E+23
-1470	7,402189E+22	7,402347E+22	7,134360E+22	7,134396E+22	1,480454E+23	1,426876E+23	2,907329E+23
-1469	7,402523E+22	7,402566E+22	7,134422E+22	7,134498E+22	1,480509E+23	1,426892E+23	2,907401E+23
-1468	7,402274E+22	7,402342E+22	7,134464E+22	7,134338E+22	1,480462E+23	1,426880E+23	2,907342E+23
-1467	7,402346E+22	7,402454E+22	7,134523E+22	7,134458E+22	1,480480E+23	1,426898E+23	2,907378E+23
-1466	7,402585E+22	7,402424E+22	7,134529E+22	7,134484E+22	1,480501E+23	1,426901E+23	2,907402E+23
-1465	7,402214E+22	7,402283E+22	7,134485E+22	7,134399E+22	1,480450E+23	1,426888E+23	2,907338E+23
-1464	7,402419E+22	7,402514E+22	7,134421E+22	7,134547E+22	1,480493E+23	1,426897E+23	2,907390E+23
-1463	7,402453E+22	7,402320E+22	7,134366E+22	7,134393E+22	1,480477E+23	1,426876E+23	2,907353E+23
-1462	7,402177E+22	7,402287E+22	7,134341E+22	7,134305E+22	1,480446E+23	1,426865E+23	2,907311E+23
-1461	7,402506E+22	7,402449E+22	7,134348E+22	7,134370E+22	1,480495E+23	1,426872E+23	2,907367E+23
-1460	7,402298E+22	7,402229E+22	7,134317E+22	7,134161E+22	1,480453E+23	1,426848E+23	2,907301E+23
-1459	7,402166E+22	7,402342E+22	7,134319E+22	7,134273E+22	1,480451E+23	1,426859E+23	2,907310E+23
-1458	7,402400E+22	7,402391E+22	7,134301E+22	7,134366E+22	1,480479E+23	1,426867E+23	2,907346E+23
-1457	7,402059E+22	7,402190E+22	7,134323E+22	7,134223E+22	1,480425E+23	1,426855E+23	2,907280E+23
-1456	7,402218E+22	7,402355E+22	7,134356E+22	7,134370E+22	1,480457E+23	1,426873E+23	2,907330E+23
-1455	7,402443E+22	7,402213E+22	7,134341E+22	7,134321E+22	1,480466E+23	1,426866E+23	2,907332E+23
-1454	7,402167E+22	7,402191E+22	7,134348E+22	7,134291E+22	1,480436E+23	1,426864E+23	2,907300E+23
-1453	7,402459E+22	7,402463E+22	7,134375E+22	7,134506E+22	1,480492E+23	1,426888E+23	2,907380E+23
-1452	7,402390E+22	7,402361E+22	7,134373E+22	7,134368E+22	1,480475E+23	1,426874E+23	2,907349E+23
-1451	7,402226E+22	7,402443E+22	7,134467E+22	7,134429E+22	1,480467E+23	1,426890E+23	2,907356E+23
-1450	7,402576E+22	7,402536E+22	7,134533E+22	7,134558E+22	1,480511E+23	1,426909E+23	2,907420E+23
-1449	7,402357E+22	7,402335E+22	7,134591E+22	7,134373E+22	1,480469E+23	1,426896E+23	2,907366E+23
-1448	7,402372E+22	7,402504E+22	7,134611E+22	7,134553E+22	1,480488E+23	1,426916E+23	2,907404E+23
-1447	7,402617E+22	7,402464E+22	7,134517E+22	7,134599E+22	1,480508E+23	1,426912E+23	2,907420E+23
-1446	7,402257E+22	7,402359E+22	7,134485E+22	7,134475E+22	1,480462E+23	1,426896E+23	2,907358E+23
-1445	7,402436E+22	7,402542E+22	7,134492E+22	7,134607E+22	1,480498E+23	1,426910E+23	2,907408E+23
-1444	7,402503E+22	7,402386E+22	7,134416E+22	7,134376E+22	1,480489E+23	1,426879E+23	2,907368E+23
-1443	7,402250E+22	7,402338E+22	7,134441E+22	7,134308E+22	1,480459E+23	1,426875E+23	2,907334E+23
-1442	7,402523E+22	7,402453E+22	7,134419E+22	7,134464E+22	1,480498E+23	1,426888E+23	2,907386E+23
-1441	7,402298E+22	7,402282E+22	7,134390E+22	7,134244E+22	1,480458E+23	1,426863E+23	2,907321E+23
-1440	7,402126E+22	7,402400E+22	7,134402E+22	7,134377E+22	1,480453E+23	1,426878E+23	2,907330E+23
-1439	7,402445E+22	7,402371E+22	7,134335E+22	7,134443E+22	1,480482E+23	1,426878E+23	2,907359E+23
-1438	7,402173E+22	7,402176E+22	7,134369E+22	7,134252E+22	1,480435E+23	1,426862E+23	2,907297E+23
-1437	7,402303E+22	7,402346E+22	7,134436E+22	7,134441E+22	1,480465E+23	1,426888E+23	2,907353E+23
-1436	7,402509E+22	7,402324E+22	7,134354E+22	7,134367E+22	1,480483E+23	1,426872E+23	2,907355E+23
-1435	7,402211E+22	7,402335E+22	7,134408E+22	7,134358E+22	1,480455E+23	1,426877E+23	2,907331E+23
-1434	7,402465E+22	7,402533E+22	7,134461E+22	7,134607E+22	1,480500E+23	1,426907E+23	2,907407E+23
-1433	7,402430E+22	7,402421E+22	7,134515E+22	7,134403E+22	1,480485E+23	1,426892E+23	2,907377E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1432	7,402258E+22	7,402482E+22	7,134630E+22	7,134491E+22	1,480474E+23	1,426912E+23	2,907386E+23
-1431	7,402648E+22	7,402513E+22	7,134603E+22	7,134654E+22	1,480516E+23	1,426926E+23	2,907442E+23
-1430	7,402423E+22	7,402369E+22	7,134625E+22	7,134489E+22	1,480479E+23	1,426911E+23	2,907391E+23
-1429	7,402372E+22	7,402545E+22	7,134643E+22	7,134701E+22	1,480492E+23	1,426934E+23	2,907426E+23
-1428	7,402629E+22	7,402552E+22	7,134503E+22	7,134647E+22	1,480518E+23	1,426915E+23	2,907433E+23
-1427	7,402333E+22	7,402423E+22	7,134541E+22	7,134470E+22	1,480476E+23	1,426901E+23	2,907377E+23
-1426	7,402513E+22	7,402520E+22	7,134564E+22	7,134614E+22	1,480503E+23	1,426918E+23	2,907421E+23
-1425	7,402579E+22	7,402419E+22	7,134516E+22	7,134365E+22	1,480500E+23	1,426888E+23	2,907388E+23
-1424	7,402254E+22	7,402423E+22	7,134539E+22	7,134377E+22	1,480468E+23	1,426892E+23	2,907359E+23
-1423	7,402506E+22	7,402490E+22	7,134443E+22	7,134567E+22	1,480500E+23	1,426901E+23	2,907401E+23
-1422	7,402310E+22	7,402328E+22	7,134443E+22	7,134335E+22	1,480464E+23	1,426878E+23	2,907342E+23
-1421	7,402139E+22	7,402383E+22	7,134494E+22	7,134468E+22	1,480452E+23	1,426896E+23	2,907348E+23
-1420	7,402503E+22	7,402387E+22	7,134379E+22	7,134467E+22	1,480489E+23	1,426885E+23	2,907374E+23
-1419	7,402285E+22	7,402222E+22	7,134432E+22	7,134299E+22	1,480451E+23	1,426873E+23	2,907324E+23
-1418	7,402355E+22	7,402378E+22	7,134468E+22	7,134549E+22	1,480473E+23	1,426902E+23	2,907375E+23
-1417	7,402543E+22	7,402434E+22	7,134411E+22	7,134437E+22	1,480498E+23	1,426885E+23	2,907382E+23
-1416	7,402215E+22	7,402443E+22	7,134516E+22	7,134430E+22	1,480466E+23	1,426895E+23	2,907360E+23
-1415	7,402508E+22	7,402548E+22	7,134545E+22	7,134660E+22	1,480506E+23	1,426920E+23	2,907426E+23
-1414	7,402524E+22	7,402438E+22	7,134622E+22	7,134451E+22	1,480496E+23	1,426907E+23	2,907404E+23
-1413	7,402304E+22	7,402482E+22	7,134742E+22	7,134607E+22	1,480479E+23	1,426935E+23	2,907414E+23
-1412	7,402672E+22	7,402599E+22	7,134623E+22	7,134747E+22	1,480527E+23	1,426937E+23	2,907464E+23
-1411	7,402474E+22	7,402467E+22	7,134657E+22	7,134584E+22	1,480494E+23	1,426924E+23	2,907418E+23
-1410	7,402401E+22	7,402569E+22	7,134686E+22	7,134790E+22	1,480497E+23	1,426948E+23	2,907445E+23
-1409	7,402705E+22	7,402596E+22	7,134593E+22	7,134639E+22	1,480530E+23	1,426923E+23	2,907453E+23
-1408	7,402395E+22	7,402464E+22	7,134665E+22	7,134471E+22	1,480486E+23	1,426914E+23	2,907399E+23
-1407	7,402574E+22	7,402523E+22	7,134620E+22	7,134656E+22	1,480510E+23	1,426928E+23	2,907437E+23
-1406	7,402609E+22	7,402470E+22	7,134552E+22	7,134443E+22	1,480508E+23	1,426899E+23	2,907407E+23
-1405	7,402201E+22	7,402458E+22	7,134591E+22	7,134517E+22	1,480466E+23	1,426911E+23	2,907377E+23
-1404	7,402479E+22	7,402542E+22	7,134453E+22	7,134628E+22	1,480502E+23	1,426908E+23	2,907410E+23
-1403	7,402379E+22	7,402339E+22	7,134499E+22	7,134370E+22	1,480472E+23	1,426887E+23	2,907359E+23
-1402	7,402224E+22	7,402339E+22	7,134546E+22	7,134522E+22	1,480456E+23	1,426907E+23	2,907363E+23
-1401	7,402609E+22	7,402427E+22	7,134439E+22	7,134487E+22	1,480504E+23	1,426893E+23	2,907396E+23
-1400	7,402330E+22	7,402344E+22	7,134504E+22	7,134366E+22	1,480467E+23	1,426887E+23	2,907354E+23
-1399	7,402382E+22	7,402468E+22	7,134502E+22	7,134631E+22	1,480485E+23	1,426913E+23	2,907398E+23
-1398	7,402581E+22	7,402527E+22	7,134506E+22	7,134501E+22	1,480511E+23	1,426901E+23	2,907412E+23
-1397	7,402232E+22	7,402471E+22	7,134673E+22	7,134529E+22	1,480470E+23	1,426920E+23	2,907390E+23
-1396	7,402546E+22	7,402580E+22	7,134647E+22	7,134712E+22	1,480513E+23	1,426936E+23	2,907449E+23
-1395	7,402613E+22	7,402473E+22	7,134717E+22	7,134558E+22	1,480509E+23	1,426927E+23	2,907436E+23
-1394	7,402338E+22	7,402492E+22	7,134775E+22	7,134763E+22	1,480483E+23	1,426954E+23	2,907437E+23
-1393	7,402712E+22	7,402668E+22	7,134655E+22	7,134829E+22	1,480538E+23	1,426948E+23	2,907486E+23
-1392	7,402527E+22	7,402544E+22	7,134724E+22	7,134628E+22	1,480507E+23	1,426935E+23	2,907442E+23
-1391	7,402491E+22	7,402564E+22	7,134718E+22	7,134786E+22	1,480505E+23	1,426950E+23	2,907456E+23
-1390	7,402810E+22	7,402624E+22	7,134665E+22	7,134628E+22	1,480543E+23	1,426929E+23	2,907473E+23
-1389	7,402420E+22	7,402500E+22	7,134752E+22	7,134542E+22	1,480492E+23	1,426929E+23	2,907421E+23
-1388	7,402529E+22	7,402618E+22	7,134641E+22	7,134716E+22	1,480515E+23	1,426936E+23	2,907450E+23
-1387	7,402602E+22	7,402556E+22	7,134601E+22	7,134543E+22	1,480516E+23	1,426914E+23	2,907430E+23
-1386	7,402189E+22	7,402439E+22	7,134647E+22	7,134621E+22	1,480463E+23	1,426927E+23	2,907390E+23
-1385	7,402539E+22	7,402537E+22	7,134534E+22	7,134649E+22	1,480508E+23	1,426918E+23	2,907426E+23
-1384	7,402471E+22	7,402350E+22	7,134590E+22	7,134402E+22	1,480482E+23	1,426899E+23	2,907381E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1383	7,402317E+22	7,402344E+22	7,134560E+22	7,134581E+22	1,480466E+23	1,426914E+23	2,907380E+23
-1382	7,402673E+22	7,402520E+22	7,134465E+22	7,134561E+22	1,480519E+23	1,426903E+23	2,907422E+23
-1381	7,402321E+22	7,402435E+22	7,134579E+22	7,134481E+22	1,480476E+23	1,426906E+23	2,907382E+23
-1380	7,402375E+22	7,402559E+22	7,134574E+22	7,134666E+22	1,480493E+23	1,426924E+23	2,907417E+23
-1379	7,402661E+22	7,402569E+22	7,134626E+22	7,134550E+22	1,480523E+23	1,426918E+23	2,907441E+23
-1378	7,402298E+22	7,402439E+22	7,134787E+22	7,134630E+22	1,480474E+23	1,426942E+23	2,907415E+23
-1377	7,402624E+22	7,402620E+22	7,134734E+22	7,134794E+22	1,480524E+23	1,426953E+23	2,907477E+23
-1376	7,402654E+22	7,402563E+22	7,134785E+22	7,134671E+22	1,480522E+23	1,426946E+23	2,907467E+23
-1375	7,402391E+22	7,402547E+22	7,134781E+22	7,134862E+22	1,480494E+23	1,426964E+23	2,907458E+23
-1374	7,402792E+22	7,402727E+22	7,134707E+22	7,134861E+22	1,480552E+23	1,426957E+23	2,907509E+23
-1373	7,402570E+22	7,402578E+22	7,134827E+22	7,134672E+22	1,480515E+23	1,426950E+23	2,907465E+23
-1372	7,402532E+22	7,402619E+22	7,134784E+22	7,134780E+22	1,480515E+23	1,426956E+23	2,907471E+23
-1371	7,402860E+22	7,402686E+22	7,134730E+22	7,134695E+22	1,480555E+23	1,426943E+23	2,907497E+23
-1370	7,402389E+22	7,402524E+22	7,134794E+22	7,134680E+22	1,480491E+23	1,426947E+23	2,907439E+23
-1369	7,402509E+22	7,402663E+22	7,134684E+22	7,134787E+22	1,480517E+23	1,426947E+23	2,907464E+23
-1368	7,402620E+22	7,402575E+22	7,134679E+22	7,134591E+22	1,480520E+23	1,426927E+23	2,907447E+23
-1367	7,402282E+22	7,402389E+22	7,134669E+22	7,134643E+22	1,480467E+23	1,426931E+23	2,907398E+23
-1366	7,402666E+22	7,402532E+22	7,134581E+22	7,134658E+22	1,480520E+23	1,426924E+23	2,907444E+23
-1365	7,402527E+22	7,402411E+22	7,134648E+22	7,134484E+22	1,480494E+23	1,426913E+23	2,907407E+23
-1364	7,402321E+22	7,402474E+22	7,134578E+22	7,134625E+22	1,480480E+23	1,426920E+23	2,907400E+23
-1363	7,402702E+22	7,402648E+22	7,134541E+22	7,134642E+22	1,480535E+23	1,426918E+23	2,907453E+23
-1362	7,402325E+22	7,402467E+22	7,134701E+22	7,134583E+22	1,480479E+23	1,426928E+23	2,907408E+23
-1361	7,402417E+22	7,402585E+22	7,134720E+22	7,134709E+22	1,480500E+23	1,426943E+23	2,907443E+23
-1360	7,402735E+22	7,402591E+22	7,134773E+22	7,134639E+22	1,480533E+23	1,426941E+23	2,907474E+23
-1359	7,402376E+22	7,402426E+22	7,134813E+22	7,134754E+22	1,480480E+23	1,426957E+23	2,907437E+23
-1358	7,402686E+22	7,402675E+22	7,134752E+22	7,134910E+22	1,480536E+23	1,426966E+23	2,907502E+23
-1357	7,402679E+22	7,402634E+22	7,134820E+22	7,134789E+22	1,480531E+23	1,426961E+23	2,907492E+23
-1356	7,402430E+22	7,402617E+22	7,134804E+22	7,134859E+22	1,480505E+23	1,426966E+23	2,907471E+23
-1355	7,402899E+22	7,402786E+22	7,134785E+22	7,134864E+22	1,480568E+23	1,426965E+23	2,907533E+23
-1354	7,402625E+22	7,402586E+22	7,134919E+22	7,134722E+22	1,480521E+23	1,426964E+23	2,907485E+23
-1353	7,402551E+22	7,402692E+22	7,134866E+22	7,134817E+22	1,480524E+23	1,426968E+23	2,907493E+23
-1352	7,402845E+22	7,402774E+22	7,134814E+22	7,134784E+22	1,480562E+23	1,426960E+23	2,907522E+23
-1351	7,402391E+22	7,402527E+22	7,134821E+22	7,134775E+22	1,480492E+23	1,426960E+23	2,907451E+23
-1350	7,402561E+22	7,402655E+22	7,134752E+22	7,134832E+22	1,480522E+23	1,426958E+23	2,907480E+23
-1349	7,402674E+22	7,402559E+22	7,134765E+22	7,134654E+22	1,480523E+23	1,426942E+23	2,907465E+23
-1348	7,402353E+22	7,402416E+22	7,134696E+22	7,134652E+22	1,480477E+23	1,426935E+23	2,907412E+23
-1347	7,402749E+22	7,402614E+22	7,134604E+22	7,134731E+22	1,480536E+23	1,426933E+23	2,907470E+23
-1346	7,402519E+22	7,402487E+22	7,134684E+22	7,134606E+22	1,480501E+23	1,426929E+23	2,907430E+23
-1345	7,402324E+22	7,402573E+22	7,134657E+22	7,134673E+22	1,480490E+23	1,426933E+23	2,907423E+23
-1344	7,402726E+22	7,402700E+22	7,134677E+22	7,134681E+22	1,480543E+23	1,426936E+23	2,907478E+23
-1343	7,402404E+22	7,402438E+22	7,134788E+22	7,134646E+22	1,480484E+23	1,426943E+23	2,907428E+23
-1342	7,402520E+22	7,402577E+22	7,134811E+22	7,134777E+22	1,480510E+23	1,426959E+23	2,907468E+23
-1341	7,402762E+22	7,402642E+22	7,134840E+22	7,134783E+22	1,480540E+23	1,426962E+23	2,907503E+23
-1340	7,402398E+22	7,402533E+22	7,134815E+22	7,134838E+22	1,480493E+23	1,426965E+23	2,907458E+23
-1339	7,402756E+22	7,402775E+22	7,134789E+22	7,134993E+22	1,480553E+23	1,426978E+23	2,907531E+23
-1338	7,402723E+22	7,402675E+22	7,134909E+22	7,134855E+22	1,480540E+23	1,426976E+23	2,907516E+23
-1337	7,402509E+22	7,402669E+22	7,134922E+22	7,134845E+22	1,480518E+23	1,426977E+23	2,907495E+23
-1336	7,402959E+22	7,402835E+22	7,134924E+22	7,134896E+22	1,480579E+23	1,426982E+23	2,907561E+23
-1335	7,402653E+22	7,402606E+22	7,134963E+22	7,134823E+22	1,480526E+23	1,426979E+23	2,907505E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1334	7,402551E+22	7,402730E+22	7,134915E+22	7,134917E+22	1,480528E+23	1,426983E+23	2,907511E+23
-1333	7,402814E+22	7,402801E+22	7,134872E+22	7,134903E+22	1,480562E+23	1,426978E+23	2,907539E+23
-1332	7,402425E+22	7,402529E+22	7,134837E+22	7,134786E+22	1,480495E+23	1,426962E+23	2,907458E+23
-1331	7,402679E+22	7,402657E+22	7,134788E+22	7,134859E+22	1,480534E+23	1,426965E+23	2,907498E+23
-1330	7,402745E+22	7,402566E+22	7,134808E+22	7,134718E+22	1,480531E+23	1,426953E+23	2,907484E+23
-1329	7,402390E+22	7,402521E+22	7,134737E+22	7,134678E+22	1,480491E+23	1,426942E+23	2,907433E+23
-1328	7,402754E+22	7,402746E+22	7,134692E+22	7,134790E+22	1,480550E+23	1,426948E+23	2,907498E+23
-1327	7,402532E+22	7,402530E+22	7,134744E+22	7,134679E+22	1,480506E+23	1,426942E+23	2,907448E+23
-1326	7,402360E+22	7,402584E+22	7,134785E+22	7,134720E+22	1,480494E+23	1,426951E+23	2,907445E+23
-1325	7,402754E+22	7,402700E+22	7,134812E+22	7,134781E+22	1,480545E+23	1,426959E+23	2,907505E+23
-1324	7,402457E+22	7,402444E+22	7,134842E+22	7,134719E+22	1,480490E+23	1,426956E+23	2,907446E+23
-1323	7,402599E+22	7,402637E+22	7,134832E+22	7,134915E+22	1,480524E+23	1,426975E+23	2,907498E+23
-1322	7,402780E+22	7,402697E+22	7,134863E+22	7,134928E+22	1,480548E+23	1,426979E+23	2,907527E+23
-1321	7,402452E+22	7,402624E+22	7,134867E+22	7,134865E+22	1,480508E+23	1,426973E+23	2,907481E+23
-1320	7,402841E+22	7,402843E+22	7,134908E+22	7,134989E+22	1,480568E+23	1,426990E+23	2,907558E+23
-1319	7,402825E+22	7,402681E+22	7,134990E+22	7,134874E+22	1,480551E+23	1,426986E+23	2,907537E+23
-1318	7,402590E+22	7,402705E+22	7,135033E+22	7,134886E+22	1,480529E+23	1,426992E+23	2,907521E+23
-1317	7,402935E+22	7,402914E+22	7,135014E+22	7,135022E+22	1,480585E+23	1,427004E+23	2,907589E+23
-1316	7,402627E+22	7,402681E+22	7,134993E+22	7,134913E+22	1,480531E+23	1,426991E+23	2,907521E+23
-1315	7,402584E+22	7,402774E+22	7,134955E+22	7,135018E+22	1,480536E+23	1,426997E+23	2,907533E+23
-1314	7,402834E+22	7,402784E+22	7,134942E+22	7,134989E+22	1,480562E+23	1,426993E+23	2,907555E+23
-1313	7,402515E+22	7,402548E+22	7,134900E+22	7,134785E+22	1,480506E+23	1,426968E+23	2,907475E+23
-1312	7,402762E+22	7,402696E+22	7,134855E+22	7,134882E+22	1,480546E+23	1,426974E+23	2,907520E+23
-1311	7,402783E+22	7,402615E+22	7,134806E+22	7,134795E+22	1,480540E+23	1,426960E+23	2,907500E+23
-1310	7,402412E+22	7,402589E+22	7,134786E+22	7,134735E+22	1,480500E+23	1,426952E+23	2,907452E+23
-1309	7,402715E+22	7,402799E+22	7,134790E+22	7,134863E+22	1,480551E+23	1,426965E+23	2,907517E+23
-1308	7,402559E+22	7,402547E+22	7,134822E+22	7,134696E+22	1,480511E+23	1,426952E+23	2,907462E+23
-1307	7,402459E+22	7,402583E+22	7,134864E+22	7,134791E+22	1,480504E+23	1,426965E+23	2,907470E+23
-1306	7,402794E+22	7,402703E+22	7,134886E+22	7,134909E+22	1,480550E+23	1,426980E+23	2,907529E+23
-1305	7,402509E+22	7,402538E+22	7,134879E+22	7,134799E+22	1,480505E+23	1,426968E+23	2,907472E+23
-1304	7,402649E+22	7,402745E+22	7,134903E+22	7,134995E+22	1,480539E+23	1,426990E+23	2,907529E+23
-1303	7,402845E+22	7,402751E+22	7,134917E+22	7,134998E+22	1,480560E+23	1,426991E+23	2,907551E+23
-1302	7,402548E+22	7,402662E+22	7,134998E+22	7,134880E+22	1,480521E+23	1,426988E+23	2,907509E+23
-1301	7,402884E+22	7,402890E+22	7,135056E+22	7,135052E+22	1,480577E+23	1,427011E+23	2,907588E+23
-1300	7,402862E+22	7,402732E+22	7,135061E+22	7,134939E+22	1,480559E+23	1,427000E+23	2,907559E+23
-1299	7,402614E+22	7,402781E+22	7,135070E+22	7,135033E+22	1,480540E+23	1,427010E+23	2,907550E+23
-1298	7,402892E+22	7,402951E+22	7,135056E+22	7,135180E+22	1,480584E+23	1,427024E+23	2,907608E+23
-1297	7,402648E+22	7,402712E+22	7,135033E+22	7,134952E+22	1,480536E+23	1,426999E+23	2,907535E+23
-1296	7,402671E+22	7,402777E+22	7,135033E+22	7,135023E+22	1,480545E+23	1,427006E+23	2,907550E+23
-1295	7,402946E+22	7,402747E+22	7,134958E+22	7,135001E+22	1,480569E+23	1,426996E+23	2,907565E+23
-1294	7,402605E+22	7,402575E+22	7,134949E+22	7,134793E+22	1,480518E+23	1,426974E+23	2,907492E+23
-1293	7,402749E+22	7,402803E+22	7,134909E+22	7,134953E+22	1,480555E+23	1,426986E+23	2,907541E+23
-1292	7,402766E+22	7,402707E+22	7,134837E+22	7,134834E+22	1,480547E+23	1,426967E+23	2,907514E+23
-1291	7,402439E+22	7,402650E+22	7,134863E+22	7,134813E+22	1,480509E+23	1,426968E+23	2,907476E+23
-1290	7,402711E+22	7,402790E+22	7,134911E+22	7,134952E+22	1,480550E+23	1,426986E+23	2,907536E+23
-1289	7,402622E+22	7,402556E+22	7,134925E+22	7,134742E+22	1,480518E+23	1,426967E+23	2,907485E+23
-1288	7,402534E+22	7,402615E+22	7,134951E+22	7,134884E+22	1,480515E+23	1,426983E+23	2,907498E+23
-1287	7,402842E+22	7,402739E+22	7,134887E+22	7,135044E+22	1,480558E+23	1,426993E+23	2,907551E+23
-1286	7,402577E+22	7,402604E+22	7,134927E+22	7,134878E+22	1,480518E+23	1,426980E+23	2,907499E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1285	7,402684E+22	7,402823E+22	7,134992E+22	7,135056E+22	1,480551E+23	1,427005E+23	2,907555E+23
-1284	7,402927E+22	7,402805E+22	7,134993E+22	7,134998E+22	1,480573E+23	1,426999E+23	2,907572E+23
-1283	7,402662E+22	7,402721E+22	7,135088E+22	7,134945E+22	1,480538E+23	1,427003E+23	2,907542E+23
-1282	7,402878E+22	7,402946E+22	7,135160E+22	7,135174E+22	1,480582E+23	1,427033E+23	2,907616E+23
-1281	7,402865E+22	7,402839E+22	7,135130E+22	7,135034E+22	1,480570E+23	1,427016E+23	2,907587E+23
-1280	7,402630E+22	7,402839E+22	7,135151E+22	7,135122E+22	1,480547E+23	1,427027E+23	2,907574E+23
-1279	7,402926E+22	7,402935E+22	7,135095E+22	7,135254E+22	1,480586E+23	1,427035E+23	2,907621E+23
-1278	7,402758E+22	7,402684E+22	7,135111E+22	7,134959E+22	1,480544E+23	1,427007E+23	2,907551E+23
-1277	7,402733E+22	7,402784E+22	7,135103E+22	7,135056E+22	1,480552E+23	1,427016E+23	2,907568E+23
-1276	7,402996E+22	7,402798E+22	7,134962E+22	7,135028E+22	1,480579E+23	1,426999E+23	2,907578E+23
-1275	7,402641E+22	7,402673E+22	7,134947E+22	7,134884E+22	1,480531E+23	1,426983E+23	2,907514E+23
-1274	7,402690E+22	7,402865E+22	7,134970E+22	7,135046E+22	1,480556E+23	1,427002E+23	2,907557E+23
-1273	7,402775E+22	7,402759E+22	7,134919E+22	7,134849E+22	1,480553E+23	1,426977E+23	2,907530E+23
-1272	7,402505E+22	7,402650E+22	7,134986E+22	7,134842E+22	1,480515E+23	1,426983E+23	2,907498E+23
-1271	7,402783E+22	7,402754E+22	7,134970E+22	7,135033E+22	1,480554E+23	1,427000E+23	2,907554E+23
-1270	7,402708E+22	7,402578E+22	7,134990E+22	7,134827E+22	1,480529E+23	1,426982E+23	2,907510E+23
-1269	7,402549E+22	7,402715E+22	7,135000E+22	7,135007E+22	1,480526E+23	1,427001E+23	2,907527E+23
-1268	7,402884E+22	7,402827E+22	7,134911E+22	7,135109E+22	1,480571E+23	1,427002E+23	2,907573E+23
-1267	7,402665E+22	7,402694E+22	7,134996E+22	7,134950E+22	1,480536E+23	1,426995E+23	2,907531E+23
-1266	7,402725E+22	7,402866E+22	7,135127E+22	7,135122E+22	1,480559E+23	1,427025E+23	2,907584E+23
-1265	7,402997E+22	7,402860E+22	7,135110E+22	7,135032E+22	1,480586E+23	1,427014E+23	2,907600E+23
-1264	7,402711E+22	7,402787E+22	7,135200E+22	7,135046E+22	1,480550E+23	1,427025E+23	2,907574E+23
-1263	7,402875E+22	7,402974E+22	7,135184E+22	7,135312E+22	1,480585E+23	1,427050E+23	2,907635E+23
-1262	7,402898E+22	7,402847E+22	7,135190E+22	7,135114E+22	1,480575E+23	1,427030E+23	2,907605E+23
-1261	7,402664E+22	7,402854E+22	7,135219E+22	7,135176E+22	1,480552E+23	1,427039E+23	2,907591E+23
-1260	7,403025E+22	7,402916E+22	7,135117E+22	7,135243E+22	1,480594E+23	1,427036E+23	2,907630E+23
-1259	7,402884E+22	7,402725E+22	7,135124E+22	7,134996E+22	1,480561E+23	1,427012E+23	2,907573E+23
-1258	7,402740E+22	7,402858E+22	7,135143E+22	7,135125E+22	1,480560E+23	1,427027E+23	2,907587E+23
-1257	7,402990E+22	7,402929E+22	7,135001E+22	7,135062E+22	1,480592E+23	1,427006E+23	2,907598E+23
-1256	7,402643E+22	7,402765E+22	7,135049E+22	7,134939E+22	1,480541E+23	1,426999E+23	2,907540E+23
-1255	7,402682E+22	7,402864E+22	7,135057E+22	7,135113E+22	1,480555E+23	1,427017E+23	2,907572E+23
-1254	7,402846E+22	7,402725E+22	7,135049E+22	7,134896E+22	1,480557E+23	1,426994E+23	2,907552E+23
-1253	7,402551E+22	7,402646E+22	7,135080E+22	7,134938E+22	1,480520E+23	1,427002E+23	2,907522E+23
-1252	7,402836E+22	7,402779E+22	7,134974E+22	7,135133E+22	1,480562E+23	1,427011E+23	2,907572E+23
-1251	7,402781E+22	7,402672E+22	7,134970E+22	7,134961E+22	1,480545E+23	1,426993E+23	2,907538E+23
-1250	7,402553E+22	7,402785E+22	7,135051E+22	7,135098E+22	1,480534E+23	1,427015E+23	2,907549E+23
-1249	7,402956E+22	7,402912E+22	7,134997E+22	7,135104E+22	1,480587E+23	1,427010E+23	2,907597E+23
-1248	7,402779E+22	7,402742E+22	7,135131E+22	7,134956E+22	1,480552E+23	1,427009E+23	2,907561E+23
-1247	7,402775E+22	7,402882E+22	7,135220E+22	7,135191E+22	1,480566E+23	1,427041E+23	2,907607E+23
-1246	7,403048E+22	7,402913E+22	7,135212E+22	7,135125E+22	1,480596E+23	1,427034E+23	2,907630E+23
-1245	7,402693E+22	7,402863E+22	7,135282E+22	7,135179E+22	1,480556E+23	1,427046E+23	2,907602E+23
-1244	7,402895E+22	7,403004E+22	7,135221E+22	7,135394E+22	1,480590E+23	1,427061E+23	2,907651E+23
-1243	7,402991E+22	7,402877E+22	7,135226E+22	7,135191E+22	1,480587E+23	1,427042E+23	2,907628E+23
-1242	7,402719E+22	7,402856E+22	7,135295E+22	7,135229E+22	1,480557E+23	1,427052E+23	2,907610E+23
-1241	7,403104E+22	7,402972E+22	7,135163E+22	7,135254E+22	1,480608E+23	1,427042E+23	2,907649E+23
-1240	7,402932E+22	7,402820E+22	7,135176E+22	7,135053E+22	1,480575E+23	1,427023E+23	2,907598E+23
-1239	7,402713E+22	7,402922E+22	7,135163E+22	7,135211E+22	1,480564E+23	1,427037E+23	2,907601E+23
-1238	7,403002E+22	7,402956E+22	7,135089E+22	7,135101E+22	1,480596E+23	1,427019E+23	2,907615E+23
-1237	7,402651E+22	7,402775E+22	7,135163E+22	7,134987E+22	1,480543E+23	1,427015E+23	2,907558E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1236	7,402747E+22	7,402824E+22	7,135116E+22	7,135145E+22	1,480557E+23	1,427026E+23	2,907583E+23
-1235	7,402939E+22	7,402744E+22	7,135076E+22	7,134997E+22	1,480568E+23	1,427007E+23	2,907576E+23
-1234	7,402567E+22	7,402707E+22	7,135116E+22	7,135061E+22	1,480527E+23	1,427018E+23	2,907545E+23
-1233	7,402874E+22	7,402881E+22	7,134992E+22	7,135188E+22	1,480576E+23	1,427018E+23	2,907594E+23
-1232	7,402845E+22	7,402772E+22	7,135053E+22	7,135008E+22	1,480562E+23	1,427006E+23	2,907568E+23
-1231	7,402608E+22	7,402816E+22	7,135142E+22	7,135133E+22	1,480542E+23	1,427027E+23	2,907570E+23
-1230	7,403052E+22	7,402919E+22	7,135149E+22	7,135123E+22	1,480597E+23	1,427027E+23	2,907624E+23
-1229	7,402815E+22	7,402795E+22	7,135270E+22	7,135054E+22	1,480561E+23	1,427032E+23	2,907593E+23
-1228	7,402787E+22	7,402927E+22	7,135263E+22	7,135315E+22	1,480571E+23	1,427058E+23	2,907629E+23
-1227	7,403075E+22	7,402990E+22	7,135226E+22	7,135286E+22	1,480606E+23	1,427051E+23	2,907658E+23
-1226	7,402695E+22	7,402892E+22	7,135338E+22	7,135291E+22	1,480559E+23	1,427063E+23	2,907622E+23
-1225	7,402978E+22	7,403030E+22	7,135274E+22	7,135400E+22	1,480601E+23	1,427067E+23	2,907668E+23
-1224	7,403121E+22	7,402918E+22	7,135301E+22	7,135200E+22	1,480604E+23	1,427050E+23	2,907654E+23
-1223	7,402781E+22	7,402893E+22	7,135331E+22	7,135270E+22	1,480567E+23	1,427060E+23	2,907627E+23
-1222	7,403149E+22	7,403049E+22	7,135236E+22	7,135296E+22	1,480620E+23	1,427053E+23	2,907673E+23
-1221	7,402902E+22	7,402925E+22	7,135266E+22	7,135127E+22	1,480583E+23	1,427039E+23	2,907622E+23
-1220	7,402698E+22	7,402951E+22	7,135231E+22	7,135262E+22	1,480565E+23	1,427049E+23	2,907614E+23
-1219	7,403051E+22	7,402970E+22	7,135160E+22	7,135177E+22	1,480602E+23	1,427034E+23	2,907636E+23
-1218	7,402676E+22	7,402737E+22	7,135259E+22	7,135072E+22	1,480541E+23	1,427033E+23	2,907574E+23
-1217	7,402808E+22	7,402839E+22	7,135156E+22	7,135206E+22	1,480565E+23	1,427036E+23	2,907601E+23
-1216	7,403002E+22	7,402814E+22	7,135093E+22	7,135091E+22	1,480582E+23	1,427018E+23	2,907600E+23
-1215	7,402574E+22	7,402759E+22	7,135112E+22	7,135146E+22	1,480533E+23	1,427026E+23	2,907559E+23
-1214	7,402945E+22	7,402926E+22	7,135074E+22	7,135203E+22	1,480587E+23	1,427028E+23	2,907615E+23
-1213	7,402902E+22	7,402826E+22	7,135178E+22	7,135023E+22	1,480573E+23	1,427020E+23	2,907593E+23
-1212	7,402685E+22	7,402833E+22	7,135235E+22	7,135162E+22	1,480552E+23	1,427040E+23	2,907592E+23
-1211	7,403117E+22	7,402993E+22	7,135217E+22	7,135237E+22	1,480611E+23	1,427045E+23	2,907656E+23
-1210	7,402790E+22	7,402874E+22	7,135357E+22	7,135212E+22	1,480566E+23	1,427057E+23	2,907623E+23
-1209	7,402794E+22	7,403012E+22	7,135321E+22	7,135417E+22	1,480581E+23	1,427074E+23	2,907654E+23
-1208	7,403132E+22	7,403053E+22	7,135313E+22	7,135371E+22	1,480619E+23	1,427068E+23	2,907687E+23
-1207	7,402766E+22	7,402891E+22	7,135405E+22	7,135347E+22	1,480566E+23	1,427075E+23	2,907641E+23
-1206	7,403108E+22	7,403021E+22	7,135374E+22	7,135412E+22	1,480613E+23	1,427079E+23	2,907692E+23
-1205	7,403174E+22	7,402990E+22	7,135385E+22	7,135258E+22	1,480616E+23	1,427064E+23	2,907681E+23
-1204	7,402799E+22	7,402961E+22	7,135346E+22	7,135340E+22	1,480576E+23	1,427069E+23	2,907645E+23
-1203	7,403147E+22	7,403134E+22	7,135261E+22	7,135387E+22	1,480628E+23	1,427065E+23	2,907693E+23
-1202	7,402876E+22	7,402948E+22	7,135362E+22	7,135202E+22	1,480582E+23	1,427056E+23	2,907639E+23
-1201	7,402742E+22	7,402935E+22	7,135304E+22	7,135265E+22	1,480568E+23	1,427057E+23	2,907625E+23
-1200	7,403130E+22	7,402971E+22	7,135231E+22	7,135223E+22	1,480610E+23	1,427045E+23	2,907656E+23
-1199	7,402719E+22	7,402745E+22	7,135268E+22	7,135156E+22	1,480546E+23	1,427042E+23	2,907589E+23
-1198	7,402866E+22	7,402884E+22	7,135189E+22	7,135269E+22	1,480575E+23	1,427046E+23	2,907621E+23
-1197	7,403013E+22	7,402922E+22	7,135158E+22	7,135157E+22	1,480594E+23	1,427032E+23	2,907625E+23
-1196	7,402618E+22	7,402812E+22	7,135172E+22	7,135174E+22	1,480543E+23	1,427035E+23	2,907578E+23
-1195	7,403019E+22	7,402984E+22	7,135168E+22	7,135249E+22	1,480600E+23	1,427042E+23	2,907642E+23
-1194	7,402935E+22	7,402857E+22	7,135319E+22	7,135113E+22	1,480579E+23	1,427043E+23	2,907622E+23
-1193	7,402713E+22	7,402891E+22	7,135323E+22	7,135257E+22	1,480560E+23	1,427058E+23	2,907618E+23
-1192	7,403134E+22	7,403089E+22	7,135281E+22	7,135385E+22	1,480622E+23	1,427067E+23	2,907689E+23
-1191	7,402793E+22	7,402904E+22	7,135395E+22	7,135344E+22	1,480570E+23	1,427074E+23	2,907644E+23
-1190	7,402890E+22	7,403007E+22	7,135412E+22	7,135461E+22	1,480590E+23	1,427087E+23	2,907677E+23
-1189	7,403231E+22	7,403081E+22	7,135417E+22	7,135392E+22	1,480631E+23	1,427081E+23	2,907712E+23
-1188	7,402880E+22	7,402908E+22	7,135453E+22	7,135364E+22	1,480579E+23	1,427082E+23	2,907661E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1187	7,403190E+22	7,403121E+22	7,135405E+22	7,135482E+22	1,480631E+23	1,427089E+23	2,907720E+23
-1186	7,403148E+22	7,403089E+22	7,135454E+22	7,135355E+22	1,480624E+23	1,427081E+23	2,907705E+23
-1185	7,402778E+22	7,403048E+22	7,135414E+22	7,135391E+22	1,480583E+23	1,427080E+23	2,907663E+23
-1184	7,403159E+22	7,403184E+22	7,135353E+22	7,135439E+22	1,480634E+23	1,427079E+23	2,907714E+23
-1183	7,402892E+22	7,402902E+22	7,135440E+22	7,135263E+22	1,480579E+23	1,427070E+23	2,907650E+23
-1182	7,402831E+22	7,402884E+22	7,135389E+22	7,135312E+22	1,480572E+23	1,427070E+23	2,907642E+23
-1181	7,403162E+22	7,403007E+22	7,135278E+22	7,135309E+22	1,480617E+23	1,427059E+23	2,907676E+23
-1180	7,402751E+22	7,402795E+22	7,135238E+22	7,135239E+22	1,480555E+23	1,427048E+23	2,907602E+23
-1179	7,402913E+22	7,402970E+22	7,135183E+22	7,135334E+22	1,480588E+23	1,427052E+23	2,907640E+23
-1178	7,403034E+22	7,402975E+22	7,135250E+22	7,135195E+22	1,480601E+23	1,427045E+23	2,907645E+23
-1177	7,402690E+22	7,402853E+22	7,135276E+22	7,135169E+22	1,480554E+23	1,427044E+23	2,907599E+23
-1176	7,403083E+22	7,403049E+22	7,135285E+22	7,135306E+22	1,480613E+23	1,427059E+23	2,907672E+23
-1175	7,402943E+22	7,402904E+22	7,135401E+22	7,135242E+22	1,480585E+23	1,427064E+23	2,907649E+23
-1174	7,402755E+22	7,402933E+22	7,135415E+22	7,135373E+22	1,480569E+23	1,427079E+23	2,907648E+23
-1173	7,403147E+22	7,403163E+22	7,135384E+22	7,135494E+22	1,480631E+23	1,427088E+23	2,907719E+23
-1172	7,402880E+22	7,402918E+22	7,135451E+22	7,135409E+22	1,480580E+23	1,427086E+23	2,907666E+23
-1171	7,403015E+22	7,403035E+22	7,135472E+22	7,135513E+22	1,480605E+23	1,427098E+23	2,907703E+23
-1170	7,403303E+22	7,403125E+22	7,135516E+22	7,135465E+22	1,480643E+23	1,427098E+23	2,907741E+23
-1169	7,402927E+22	7,402995E+22	7,135493E+22	7,135417E+22	1,480592E+23	1,427091E+23	2,907683E+23
-1168	7,403180E+22	7,403245E+22	7,135448E+22	7,135569E+22	1,480643E+23	1,427102E+23	2,907744E+23
-1167	7,403117E+22	7,403132E+22	7,135505E+22	7,135441E+22	1,480625E+23	1,427095E+23	2,907720E+23
-1166	7,402829E+22	7,403016E+22	7,135514E+22	7,135413E+22	1,480585E+23	1,427093E+23	2,907677E+23
-1165	7,403201E+22	7,403179E+22	7,135457E+22	7,135468E+22	1,480638E+23	1,427092E+23	2,907730E+23
-1164	7,402974E+22	7,402877E+22	7,135455E+22	7,135314E+22	1,480585E+23	1,427077E+23	2,907662E+23
-1163	7,402897E+22	7,402941E+22	7,135377E+22	7,135397E+22	1,480584E+23	1,427077E+23	2,907661E+23
-1162	7,403160E+22	7,403091E+22	7,135315E+22	7,135402E+22	1,480625E+23	1,427072E+23	2,907697E+23
-1161	7,402775E+22	7,402885E+22	7,135283E+22	7,135261E+22	1,480566E+23	1,427054E+23	2,907620E+23
-1160	7,402960E+22	7,403060E+22	7,135280E+22	7,135355E+22	1,480602E+23	1,427063E+23	2,907665E+23
-1159	7,403077E+22	7,402982E+22	7,135365E+22	7,135246E+22	1,480606E+23	1,427061E+23	2,907667E+23
-1158	7,402774E+22	7,402848E+22	7,135414E+22	7,135239E+22	1,480562E+23	1,427065E+23	2,907627E+23
-1157	7,403083E+22	7,403121E+22	7,135389E+22	7,135433E+22	1,480620E+23	1,427082E+23	2,907703E+23
-1156	7,402959E+22	7,402943E+22	7,135424E+22	7,135386E+22	1,480590E+23	1,427081E+23	2,907671E+23
-1155	7,402824E+22	7,402980E+22	7,135445E+22	7,135484E+22	1,480580E+23	1,427093E+23	2,907673E+23
-1154	7,403213E+22	7,403172E+22	7,135471E+22	7,135558E+22	1,480639E+23	1,427103E+23	2,907741E+23
-1153	7,402997E+22	7,402955E+22	7,135510E+22	7,135412E+22	1,480595E+23	1,427092E+23	2,907687E+23
-1152	7,403117E+22	7,403137E+22	7,135525E+22	7,135552E+22	1,480625E+23	1,427108E+23	2,907733E+23
-1151	7,403311E+22	7,403211E+22	7,135565E+22	7,135554E+22	1,480652E+23	1,427112E+23	2,907764E+23
-1150	7,402948E+22	7,403075E+22	7,135587E+22	7,135489E+22	1,480602E+23	1,427108E+23	2,907710E+23
-1149	7,403147E+22	7,403322E+22	7,135571E+22	7,135629E+22	1,480647E+23	1,427120E+23	2,907767E+23
-1148	7,403151E+22	7,403113E+22	7,135579E+22	7,135498E+22	1,480626E+23	1,427108E+23	2,907734E+23
-1147	7,402919E+22	7,402986E+22	7,135573E+22	7,135472E+22	1,480590E+23	1,427105E+23	2,907695E+23
-1146	7,403241E+22	7,403165E+22	7,135521E+22	7,135559E+22	1,480641E+23	1,427108E+23	2,907749E+23
-1145	7,403016E+22	7,402935E+22	7,135441E+22	7,135381E+22	1,480595E+23	1,427082E+23	2,907677E+23
-1144	7,402925E+22	7,403054E+22	7,135366E+22	7,135464E+22	1,480598E+23	1,427083E+23	2,907681E+23
-1143	7,403171E+22	7,403136E+22	7,135359E+22	7,135447E+22	1,480631E+23	1,427081E+23	2,907711E+23
-1142	7,402867E+22	7,402893E+22	7,135398E+22	7,135250E+22	1,480576E+23	1,427065E+23	2,907641E+23
-1141	7,403001E+22	7,403104E+22	7,135427E+22	7,135368E+22	1,480611E+23	1,427080E+23	2,907690E+23
-1140	7,403136E+22	7,403004E+22	7,135433E+22	7,135336E+22	1,480614E+23	1,427077E+23	2,907691E+23
-1139	7,402814E+22	7,402907E+22	7,135458E+22	7,135372E+22	1,480572E+23	1,427083E+23	2,907655E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1138	7,403069E+22	7,403186E+22	7,135471E+22	7,135583E+22	1,480625E+23	1,427105E+23	2,907731E+23
-1137	7,403007E+22	7,402998E+22	7,135469E+22	7,135457E+22	1,480601E+23	1,427093E+23	2,907693E+23
-1136	7,402912E+22	7,403047E+22	7,135506E+22	7,135535E+22	1,480596E+23	1,427104E+23	2,907700E+23
-1135	7,403301E+22	7,403188E+22	7,135556E+22	7,135617E+22	1,480649E+23	1,427117E+23	2,907766E+23
-1134	7,403108E+22	7,402994E+22	7,135606E+22	7,135459E+22	1,480610E+23	1,427106E+23	2,907717E+23
-1133	7,403116E+22	7,403262E+22	7,135616E+22	7,135627E+22	1,480638E+23	1,427124E+23	2,907762E+23
-1132	7,403317E+22	7,403275E+22	7,135598E+22	7,135650E+22	1,480659E+23	1,427125E+23	2,907784E+23
-1131	7,402985E+22	7,403100E+22	7,135656E+22	7,135558E+22	1,480609E+23	1,427121E+23	2,907730E+23
-1130	7,403168E+22	7,403303E+22	7,135686E+22	7,135686E+22	1,480647E+23	1,427137E+23	2,907784E+23
-1129	7,403226E+22	7,403100E+22	7,135628E+22	7,135524E+22	1,480633E+23	1,427115E+23	2,907748E+23
-1128	7,402993E+22	7,403048E+22	7,135581E+22	7,135541E+22	1,480604E+23	1,427112E+23	2,907716E+23
-1127	7,403257E+22	7,403214E+22	7,135527E+22	7,135652E+22	1,480647E+23	1,427118E+23	2,907765E+23
-1126	7,403066E+22	7,403005E+22	7,135489E+22	7,135423E+22	1,480607E+23	1,427091E+23	2,907698E+23
-1125	7,402932E+22	7,403152E+22	7,135471E+22	7,135473E+22	1,480608E+23	1,427094E+23	2,907703E+23
-1124	7,403222E+22	7,403149E+22	7,135441E+22	7,135474E+22	1,480637E+23	1,427091E+23	2,907729E+23
-1123	7,402952E+22	7,402901E+22	7,135504E+22	7,135312E+22	1,480585E+23	1,427082E+23	2,907667E+23
-1122	7,403000E+22	7,403120E+22	7,135535E+22	7,135490E+22	1,480612E+23	1,427102E+23	2,907714E+23
-1121	7,403130E+22	7,403065E+22	7,135455E+22	7,135461E+22	1,480619E+23	1,427092E+23	2,907711E+23
-1120	7,402840E+22	7,402998E+22	7,135461E+22	7,135495E+22	1,480584E+23	1,427096E+23	2,907679E+23
-1119	7,403110E+22	7,403185E+22	7,135520E+22	7,135665E+22	1,480629E+23	1,427119E+23	2,907748E+23
-1118	7,403147E+22	7,403005E+22	7,135559E+22	7,135466E+22	1,480615E+23	1,427102E+23	2,907718E+23
-1117	7,403011E+22	7,403119E+22	7,135618E+22	7,135538E+22	1,480613E+23	1,427116E+23	2,907729E+23
-1116	7,403381E+22	7,403253E+22	7,135608E+22	7,135683E+22	1,480663E+23	1,427129E+23	2,907792E+23
-1115	7,403157E+22	7,403098E+22	7,135675E+22	7,135553E+22	1,480626E+23	1,427123E+23	2,907748E+23
-1114	7,403077E+22	7,403345E+22	7,135739E+22	7,135736E+22	1,480642E+23	1,427148E+23	2,907790E+23
-1113	7,403324E+22	7,403322E+22	7,135683E+22	7,135714E+22	1,480665E+23	1,427140E+23	2,907804E+23
-1112	7,403048E+22	7,403128E+22	7,135727E+22	7,135626E+22	1,480618E+23	1,427135E+23	2,907753E+23
-1111	7,403226E+22	7,403258E+22	7,135762E+22	7,135773E+22	1,480648E+23	1,427153E+23	2,907802E+23
-1110	7,403317E+22	7,403110E+22	7,135669E+22	7,135594E+22	1,480643E+23	1,427126E+23	2,907769E+23
-1109	7,402998E+22	7,403155E+22	7,135609E+22	7,135605E+22	1,480615E+23	1,427121E+23	2,907737E+23
-1108	7,403288E+22	7,403270E+22	7,135519E+22	7,135716E+22	1,480656E+23	1,427123E+23	2,907779E+23
-1107	7,403132E+22	7,403035E+22	7,135545E+22	7,135434E+22	1,480617E+23	1,427098E+23	2,907715E+23
-1106	7,402955E+22	7,403166E+22	7,135599E+22	7,135492E+22	1,480612E+23	1,427109E+23	2,907721E+23
-1105	7,403269E+22	7,403172E+22	7,135508E+22	7,135498E+22	1,480644E+23	1,427101E+23	2,907745E+23
-1104	7,402980E+22	7,402979E+22	7,135542E+22	7,135416E+22	1,480596E+23	1,427096E+23	2,907692E+23
-1103	7,402981E+22	7,403156E+22	7,135590E+22	7,135634E+22	1,480614E+23	1,427122E+23	2,907736E+23
-1102	7,403176E+22	7,403104E+22	7,135523E+22	7,135549E+22	1,480628E+23	1,427107E+23	2,907735E+23
-1101	7,402886E+22	7,403071E+22	7,135563E+22	7,135532E+22	1,480596E+23	1,427109E+23	2,907705E+23
-1100	7,403227E+22	7,403186E+22	7,135582E+22	7,135708E+22	1,480641E+23	1,427129E+23	2,907770E+23
-1099	7,403282E+22	7,403035E+22	7,135651E+22	7,135512E+22	1,480632E+23	1,427116E+23	2,907748E+23
-1098	7,403038E+22	7,403202E+22	7,135731E+22	7,135637E+22	1,480624E+23	1,427137E+23	2,907761E+23
-1097	7,403374E+22	7,403363E+22	7,135654E+22	7,135779E+22	1,480674E+23	1,427143E+23	2,907817E+23
-1096	7,403165E+22	7,403208E+22	7,135729E+22	7,135665E+22	1,480637E+23	1,427139E+23	2,907777E+23
-1095	7,403086E+22	7,403330E+22	7,135841E+22	7,135825E+22	1,480642E+23	1,427167E+23	2,907808E+23
-1094	7,403416E+22	7,403301E+22	7,135781E+22	7,135752E+22	1,480672E+23	1,427153E+23	2,907825E+23
-1093	7,403123E+22	7,403168E+22	7,135805E+22	7,135663E+22	1,480629E+23	1,427147E+23	2,907776E+23
-1092	7,403294E+22	7,403278E+22	7,135753E+22	7,135857E+22	1,480657E+23	1,427161E+23	2,907818E+23
-1091	7,403376E+22	7,403187E+22	7,135685E+22	7,135663E+22	1,480656E+23	1,427135E+23	2,907791E+23
-1090	7,402989E+22	7,403230E+22	7,135685E+22	7,135652E+22	1,480622E+23	1,427134E+23	2,907756E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1089	7,403295E+22	7,403322E+22	7,135581E+22	7,135713E+22	1,480662E+23	1,427129E+23	2,907791E+23
-1088	7,403189E+22	7,403089E+22	7,135620E+22	7,135467E+22	1,480628E+23	1,427109E+23	2,907736E+23
-1087	7,402972E+22	7,403133E+22	7,135704E+22	7,135579E+22	1,480610E+23	1,427128E+23	2,907739E+23
-1086	7,403297E+22	7,403199E+22	7,135576E+22	7,135598E+22	1,480650E+23	1,427117E+23	2,907767E+23
-1085	7,402971E+22	7,403064E+22	7,135593E+22	7,135516E+22	1,480604E+23	1,427111E+23	2,907715E+23
-1084	7,403027E+22	7,403158E+22	7,135602E+22	7,135732E+22	1,480619E+23	1,427133E+23	2,907752E+23
-1083	7,403292E+22	7,403109E+22	7,135592E+22	7,135583E+22	1,480640E+23	1,427118E+23	2,907758E+23
-1082	7,402972E+22	7,403101E+22	7,135679E+22	7,135559E+22	1,480607E+23	1,427124E+23	2,907731E+23
-1081	7,403312E+22	7,403260E+22	7,135642E+22	7,135740E+22	1,480657E+23	1,427138E+23	2,907795E+23
-1080	7,403337E+22	7,403185E+22	7,135696E+22	7,135613E+22	1,480652E+23	1,427131E+23	2,907783E+23
-1079	7,403017E+22	7,403286E+22	7,135833E+22	7,135775E+22	1,480630E+23	1,427161E+23	2,907791E+23
-1078	7,403387E+22	7,403437E+22	7,135769E+22	7,135867E+22	1,480682E+23	1,427164E+23	2,907846E+23
-1077	7,403183E+22	7,403268E+22	7,135869E+22	7,135725E+22	1,480645E+23	1,427159E+23	2,907805E+23
-1076	7,403179E+22	7,403285E+22	7,135915E+22	7,135910E+22	1,480646E+23	1,427183E+23	2,907829E+23
-1075	7,403533E+22	7,403273E+22	7,135842E+22	7,135821E+22	1,480681E+23	1,427166E+23	2,907847E+23
-1074	7,403146E+22	7,403221E+22	7,135847E+22	7,135756E+22	1,480637E+23	1,427160E+23	2,907797E+23
-1073	7,403309E+22	7,403363E+22	7,135720E+22	7,135909E+22	1,480667E+23	1,427163E+23	2,907830E+23
-1072	7,403405E+22	7,403286E+22	7,135685E+22	7,135698E+22	1,480669E+23	1,427138E+23	2,907807E+23
-1071	7,403009E+22	7,403228E+22	7,135784E+22	7,135673E+22	1,480624E+23	1,427146E+23	2,907769E+23
-1070	7,403356E+22	7,403327E+22	7,135688E+22	7,135704E+22	1,480668E+23	1,427139E+23	2,907808E+23
-1069	7,403214E+22	7,403147E+22	7,135729E+22	7,135505E+22	1,480636E+23	1,427123E+23	2,907760E+23
-1068	7,402995E+22	7,403144E+22	7,135731E+22	7,135702E+22	1,480614E+23	1,427143E+23	2,907757E+23
-1067	7,403330E+22	7,403233E+22	7,135627E+22	7,135706E+22	1,480656E+23	1,427133E+23	2,907790E+23
-1066	7,402980E+22	7,403117E+22	7,135680E+22	7,135606E+22	1,480610E+23	1,427129E+23	2,907738E+23
-1065	7,403095E+22	7,403194E+22	7,135647E+22	7,135763E+22	1,480629E+23	1,427141E+23	2,907770E+23
-1064	7,403407E+22	7,403182E+22	7,135651E+22	7,135636E+22	1,480659E+23	1,427129E+23	2,907788E+23
-1063	7,403034E+22	7,403130E+22	7,135789E+22	7,135653E+22	1,480616E+23	1,427144E+23	2,907761E+23
-1062	7,403338E+22	7,403366E+22	7,135727E+22	7,135833E+22	1,480670E+23	1,427156E+23	2,907826E+23
-1061	7,403326E+22	7,403325E+22	7,135796E+22	7,135713E+22	1,480665E+23	1,427151E+23	2,907816E+23
-1060	7,403045E+22	7,403286E+22	7,135900E+22	7,135883E+22	1,480633E+23	1,427178E+23	2,907811E+23
-1059	7,403475E+22	7,403412E+22	7,135880E+22	7,135920E+22	1,480689E+23	1,427180E+23	2,907869E+23
-1058	7,403261E+22	7,403257E+22	7,135972E+22	7,135780E+22	1,480652E+23	1,427175E+23	2,907827E+23
-1057	7,403253E+22	7,403306E+22	7,135920E+22	7,135960E+22	1,480656E+23	1,427188E+23	2,907844E+23
-1056	7,403595E+22	7,403391E+22	7,135822E+22	7,135907E+22	1,480699E+23	1,427173E+23	2,907871E+23
-1055	7,403151E+22	7,403282E+22	7,135897E+22	7,135833E+22	1,480643E+23	1,427173E+23	2,907816E+23
-1054	7,403329E+22	7,403444E+22	7,135796E+22	7,135914E+22	1,480677E+23	1,427171E+23	2,907848E+23
-1053	7,403431E+22	7,403364E+22	7,135808E+22	7,135688E+22	1,480679E+23	1,427150E+23	2,907829E+23
-1052	7,403069E+22	7,403187E+22	7,135871E+22	7,135730E+22	1,480626E+23	1,427160E+23	2,907786E+23
-1051	7,403406E+22	7,403313E+22	7,135781E+22	7,135783E+22	1,480672E+23	1,427156E+23	2,907828E+23
-1050	7,403189E+22	7,403194E+22	7,135794E+22	7,135640E+22	1,480638E+23	1,427143E+23	2,907782E+23
-1049	7,402995E+22	7,403189E+22	7,135713E+22	7,135806E+22	1,480618E+23	1,427152E+23	2,907770E+23
-1048	7,403393E+22	7,403294E+22	7,135629E+22	7,135781E+22	1,480669E+23	1,427141E+23	2,907810E+23
-1047	7,403059E+22	7,403112E+22	7,135766E+22	7,135650E+22	1,480617E+23	1,427142E+23	2,907759E+23
-1046	7,403208E+22	7,403250E+22	7,135729E+22	7,135763E+22	1,480646E+23	1,427149E+23	2,907795E+23
-1045	7,403466E+22	7,403310E+22	7,135755E+22	7,135674E+22	1,480678E+23	1,427143E+23	2,907821E+23
-1044	7,403072E+22	7,403201E+22	7,135859E+22	7,135778E+22	1,480627E+23	1,427164E+23	2,907791E+23
-1043	7,403358E+22	7,403424E+22	7,135841E+22	7,135926E+22	1,480678E+23	1,427177E+23	2,907855E+23
-1042	7,403315E+22	7,403375E+22	7,135939E+22	7,135814E+22	1,480669E+23	1,427175E+23	2,907844E+23
-1041	7,403106E+22	7,403284E+22	7,135967E+22	7,135946E+22	1,480639E+23	1,427191E+23	2,907830E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1040	7,403582E+22	7,403428E+22	7,135923E+22	7,136001E+22	1,480701E+23	1,427192E+23	2,907893E+23
-1039	7,403328E+22	7,403261E+22	7,136032E+22	7,135889E+22	1,480659E+23	1,427192E+23	2,907851E+23
-1038	7,403296E+22	7,403403E+22	7,135926E+22	7,136026E+22	1,480670E+23	1,427195E+23	2,907865E+23
-1037	7,403604E+22	7,403526E+22	7,135868E+22	7,135943E+22	1,480713E+23	1,427181E+23	2,907894E+23
-1036	7,403196E+22	7,403295E+22	7,135948E+22	7,135873E+22	1,480649E+23	1,427182E+23	2,907831E+23
-1035	7,403393E+22	7,403434E+22	7,135916E+22	7,135902E+22	1,480683E+23	1,427182E+23	2,907865E+23
-1034	7,403456E+22	7,403384E+22	7,135930E+22	7,135734E+22	1,480684E+23	1,427166E+23	2,907850E+23
-1033	7,403090E+22	7,403207E+22	7,135891E+22	7,135811E+22	1,480630E+23	1,427170E+23	2,907800E+23
-1032	7,403420E+22	7,403397E+22	7,135776E+22	7,135912E+22	1,480682E+23	1,427169E+23	2,907851E+23
-1031	7,403189E+22	7,403217E+22	7,135850E+22	7,135762E+22	1,480641E+23	1,427161E+23	2,907802E+23
-1030	7,403040E+22	7,403246E+22	7,135767E+22	7,135839E+22	1,480629E+23	1,427161E+23	2,907789E+23
-1029	7,403480E+22	7,403368E+22	7,135732E+22	7,135786E+22	1,480685E+23	1,427152E+23	2,907837E+23
-1028	7,403175E+22	7,403095E+22	7,135840E+22	7,135704E+22	1,480627E+23	1,427154E+23	2,907781E+23
-1027	7,403280E+22	7,403292E+22	7,135834E+22	7,135820E+22	1,480657E+23	1,427165E+23	2,907823E+23
-1026	7,403453E+22	7,403417E+22	7,135846E+22	7,135791E+22	1,480687E+23	1,427164E+23	2,907851E+23
-1025	7,403067E+22	7,403254E+22	7,135896E+22	7,135881E+22	1,480632E+23	1,427178E+23	2,907810E+23
-1024	7,403402E+22	7,403475E+22	7,135900E+22	7,136018E+22	1,480688E+23	1,427192E+23	2,907880E+23
-1023	7,403385E+22	7,403338E+22	7,136054E+22	7,135898E+22	1,480672E+23	1,427195E+23	2,907868E+23
-1022	7,403208E+22	7,403316E+22	7,136026E+22	7,135989E+22	1,480652E+23	1,427201E+23	2,907854E+23
-1021	7,403656E+22	7,403538E+22	7,135976E+22	7,136058E+22	1,480719E+23	1,427203E+23	2,907923E+23
-1020	7,403384E+22	7,403325E+22	7,136046E+22	7,135989E+22	1,480671E+23	1,427203E+23	2,907874E+23
-1019	7,403337E+22	7,403479E+22	7,136008E+22	7,136060E+22	1,480682E+23	1,427207E+23	2,907888E+23
-1018	7,403603E+22	7,403604E+22	7,135994E+22	7,135979E+22	1,480721E+23	1,427197E+23	2,907918E+23
-1017	7,403238E+22	7,403303E+22	7,136026E+22	7,135903E+22	1,480654E+23	1,427193E+23	2,907847E+23
-1016	7,403444E+22	7,403454E+22	7,135978E+22	7,135977E+22	1,480690E+23	1,427195E+23	2,907885E+23
-1015	7,403455E+22	7,403375E+22	7,136007E+22	7,135872E+22	1,480683E+23	1,427188E+23	2,907871E+23
-1014	7,403094E+22	7,403273E+22	7,135892E+22	7,135910E+22	1,480637E+23	1,427180E+23	2,907817E+23
-1013	7,403440E+22	7,403468E+22	7,135809E+22	7,135968E+22	1,480691E+23	1,427178E+23	2,907868E+23
-1012	7,403279E+22	7,403193E+22	7,135881E+22	7,135809E+22	1,480647E+23	1,427169E+23	2,907816E+23
-1011	7,403168E+22	7,403234E+22	7,135854E+22	7,135809E+22	1,480640E+23	1,427166E+23	2,907807E+23
-1010	7,403538E+22	7,403429E+22	7,135837E+22	7,135812E+22	1,480697E+23	1,427165E+23	2,907862E+23
-1009	7,403216E+22	7,403178E+22	7,135875E+22	7,135777E+22	1,480639E+23	1,427165E+23	2,907805E+23
-1008	7,403283E+22	7,403414E+22	7,135880E+22	7,135937E+22	1,480670E+23	1,427182E+23	2,907851E+23
-1007	7,403431E+22	7,403464E+22	7,135971E+22	7,135930E+22	1,480690E+23	1,427190E+23	2,907880E+23
-1006	7,403101E+22	7,403305E+22	7,135991E+22	7,135950E+22	1,480641E+23	1,427194E+23	2,907835E+23
-1005	7,403484E+22	7,403514E+22	7,136019E+22	7,136073E+22	1,480700E+23	1,427209E+23	2,907909E+23
-1004	7,403504E+22	7,403309E+22	7,136112E+22	7,136007E+22	1,480681E+23	1,427212E+23	2,907893E+23
-1003	7,403298E+22	7,403358E+22	7,136083E+22	7,136064E+22	1,480666E+23	1,427215E+23	2,907880E+23
-1002	7,403664E+22	7,403659E+22	7,136029E+22	7,136154E+22	1,480732E+23	1,427218E+23	2,907951E+23
-1001	7,403413E+22	7,403395E+22	7,136061E+22	7,136039E+22	1,480681E+23	1,427210E+23	2,907891E+23
-1000	7,403388E+22	7,403540E+22	7,136071E+22	7,136083E+22	1,480693E+23	1,427215E+23	2,907908E+23
-999	7,403646E+22	7,403586E+22	7,136123E+22	7,136028E+22	1,480723E+23	1,427215E+23	2,907938E+23
-998	7,403276E+22	7,403335E+22	7,136094E+22	7,135946E+22	1,480661E+23	1,427204E+23	2,907865E+23
-997	7,403461E+22	7,403533E+22	7,136040E+22	7,136058E+22	1,480699E+23	1,427210E+23	2,907909E+23
-996	7,403479E+22	7,403373E+22	7,136017E+22	7,135994E+22	1,480685E+23	1,427201E+23	2,907886E+23
-995	7,403139E+22	7,403290E+22	7,135948E+22	7,135948E+22	1,480643E+23	1,427190E+23	2,907832E+23
-994	7,403483E+22	7,403514E+22	7,135891E+22	7,135993E+22	1,480700E+23	1,427188E+23	2,907888E+23
-993	7,403370E+22	7,403200E+22	7,135916E+22	7,135821E+22	1,480657E+23	1,427174E+23	2,907831E+23
-992	7,403248E+22	7,403301E+22	7,135908E+22	7,135862E+22	1,480655E+23	1,427177E+23	2,907832E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-991	7,403537E+22	7,403488E+22	7,135930E+22	7,135937E+22	1,480703E+23	1,427187E+23	2,907889E+23
-990	7,403196E+22	7,403295E+22	7,135925E+22	7,135883E+22	1,480649E+23	1,427181E+23	2,907830E+23
-989	7,403286E+22	7,403501E+22	7,135979E+22	7,136021E+22	1,480679E+23	1,427200E+23	2,907879E+23
-988	7,403501E+22	7,403426E+22	7,136058E+22	7,136026E+22	1,480693E+23	1,427208E+23	2,907901E+23
-987	7,403230E+22	7,403283E+22	7,136099E+22	7,135984E+22	1,480651E+23	1,427208E+23	2,907860E+23
-986	7,403566E+22	7,403567E+22	7,136106E+22	7,136147E+22	1,480713E+23	1,427225E+23	2,907939E+23
-985	7,403578E+22	7,403391E+22	7,136114E+22	7,136097E+22	1,480697E+23	1,427221E+23	2,907918E+23
-984	7,403347E+22	7,403491E+22	7,136107E+22	7,136146E+22	1,480684E+23	1,427225E+23	2,907909E+23
-983	7,403663E+22	7,403725E+22	7,136150E+22	7,136237E+22	1,480739E+23	1,427239E+23	2,907977E+23
-982	7,403445E+22	7,403472E+22	7,136164E+22	7,136060E+22	1,480692E+23	1,427222E+23	2,907914E+23
-981	7,403436E+22	7,403573E+22	7,136202E+22	7,136109E+22	1,480701E+23	1,427231E+23	2,907932E+23
-980	7,403694E+22	7,403542E+22	7,136192E+22	7,136139E+22	1,480724E+23	1,427233E+23	2,907957E+23
-979	7,403316E+22	7,403339E+22	7,136134E+22	7,136031E+22	1,480665E+23	1,427217E+23	2,907882E+23
-978	7,403439E+22	7,403584E+22	7,136066E+22	7,136157E+22	1,480702E+23	1,427222E+23	2,907925E+23
-977	7,403520E+22	7,403387E+22	7,135996E+22	7,136043E+22	1,480691E+23	1,427204E+23	2,907895E+23
-976	7,403230E+22	7,403323E+22	7,135967E+22	7,135949E+22	1,480655E+23	1,427192E+23	2,907847E+23
-975	7,403549E+22	7,403522E+22	7,135988E+22	7,136022E+22	1,480707E+23	1,427201E+23	2,907908E+23
-974	7,403419E+22	7,403300E+22	7,135968E+22	7,135847E+22	1,480672E+23	1,427181E+23	2,907853E+23
-973	7,403253E+22	7,403433E+22	7,135997E+22	7,135936E+22	1,480669E+23	1,427193E+23	2,907862E+23
-972	7,403528E+22	7,403531E+22	7,136009E+22	7,136074E+22	1,480706E+23	1,427208E+23	2,907914E+23
-971	7,403226E+22	7,403318E+22	7,136054E+22	7,135958E+22	1,480654E+23	1,427201E+23	2,907856E+23
-970	7,403324E+22	7,403522E+22	7,136117E+22	7,136103E+22	1,480685E+23	1,427222E+23	2,907907E+23
-969	7,403612E+22	7,403401E+22	7,136113E+22	7,136105E+22	1,480701E+23	1,427222E+23	2,907923E+23
-968	7,403344E+22	7,403337E+22	7,136133E+22	7,136076E+22	1,480668E+23	1,427221E+23	2,907889E+23
-967	7,403606E+22	7,403641E+22	7,136165E+22	7,136279E+22	1,480725E+23	1,427244E+23	2,907969E+23
-966	7,403593E+22	7,403530E+22	7,136138E+22	7,136162E+22	1,480712E+23	1,427230E+23	2,907942E+23
-965	7,403387E+22	7,403598E+22	7,136210E+22	7,136175E+22	1,480698E+23	1,427239E+23	2,907937E+23
-964	7,403723E+22	7,403698E+22	7,136252E+22	7,136279E+22	1,480742E+23	1,427253E+23	2,907995E+23
-963	7,403522E+22	7,403456E+22	7,136287E+22	7,136075E+22	1,480698E+23	1,427236E+23	2,907934E+23
-962	7,403451E+22	7,403615E+22	7,136288E+22	7,136192E+22	1,480707E+23	1,427248E+23	2,907955E+23
-961	7,403705E+22	7,403572E+22	7,136174E+22	7,136249E+22	1,480728E+23	1,427242E+23	2,907970E+23
-960	7,403343E+22	7,403412E+22	7,136127E+22	7,136118E+22	1,480675E+23	1,427225E+23	2,907900E+23
-959	7,403456E+22	7,403603E+22	7,136133E+22	7,136228E+22	1,480706E+23	1,427236E+23	2,907942E+23
-958	7,403575E+22	7,403450E+22	7,136045E+22	7,136036E+22	1,480702E+23	1,427208E+23	2,907911E+23
-957	7,403314E+22	7,403383E+22	7,136068E+22	7,135951E+22	1,480670E+23	1,427202E+23	2,907872E+23
-956	7,403588E+22	7,403530E+22	7,136065E+22	7,136107E+22	1,480712E+23	1,427217E+23	2,907929E+23
-955	7,403436E+22	7,403367E+22	7,136053E+22	7,135930E+22	1,480680E+23	1,427198E+23	2,907879E+23
-954	7,403220E+22	7,403509E+22	7,136093E+22	7,136047E+22	1,480673E+23	1,427214E+23	2,907887E+23
-953	7,403558E+22	7,403530E+22	7,136059E+22	7,136163E+22	1,480709E+23	1,427222E+23	2,907931E+23
-952	7,403333E+22	7,403324E+22	7,136120E+22	7,136016E+22	1,480666E+23	1,427214E+23	2,907879E+23
-951	7,403414E+22	7,403510E+22	7,136221E+22	7,136197E+22	1,480692E+23	1,427242E+23	2,907934E+23
-950	7,403691E+22	7,403508E+22	7,136144E+22	7,136174E+22	1,480720E+23	1,427232E+23	2,907952E+23
-949	7,403404E+22	7,403479E+22	7,136191E+22	7,136148E+22	1,480688E+23	1,427234E+23	2,907922E+23
-948	7,403627E+22	7,403709E+22	7,136238E+22	7,136377E+22	1,480734E+23	1,427261E+23	2,907995E+23
-947	7,403645E+22	7,403593E+22	7,136265E+22	7,136185E+22	1,480724E+23	1,427245E+23	2,907969E+23
-946	7,403407E+22	7,403637E+22	7,136361E+22	7,136220E+22	1,480704E+23	1,427258E+23	2,907962E+23
-945	7,403776E+22	7,403678E+22	7,136321E+22	7,136356E+22	1,480745E+23	1,427268E+23	2,908013E+23
-944	7,403575E+22	7,403481E+22	7,136319E+22	7,136183E+22	1,480706E+23	1,427250E+23	2,907956E+23
-943	7,403437E+22	7,403638E+22	7,136324E+22	7,136341E+22	1,480708E+23	1,427267E+23	2,907974E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-942	7,403708E+22	7,403650E+22	7,136156E+22	7,136309E+22	1,480736E+23	1,427247E+23	2,907982E+23
-941	7,403411E+22	7,403467E+22	7,136175E+22	7,136118E+22	1,480688E+23	1,427229E+23	2,907917E+23
-940	7,403543E+22	7,403576E+22	7,136194E+22	7,136236E+22	1,480712E+23	1,427243E+23	2,907955E+23
-939	7,403672E+22	7,403475E+22	7,136140E+22	7,136015E+22	1,480715E+23	1,427216E+23	2,907930E+23
-938	7,403328E+22	7,403473E+22	7,136172E+22	7,136012E+22	1,480680E+23	1,427218E+23	2,907898E+23
-937	7,403578E+22	7,403591E+22	7,136102E+22	7,136209E+22	1,480717E+23	1,427231E+23	2,907948E+23
-936	7,403444E+22	7,403438E+22	7,136124E+22	7,136038E+22	1,480688E+23	1,427216E+23	2,907904E+23
-935	7,403231E+22	7,403512E+22	7,136217E+22	7,136170E+22	1,480674E+23	1,427239E+23	2,907913E+23
-934	7,403618E+22	7,403556E+22	7,136129E+22	7,136218E+22	1,480717E+23	1,427235E+23	2,907952E+23
-933	7,403454E+22	7,403369E+22	7,136205E+22	7,136081E+22	1,480682E+23	1,427229E+23	2,907911E+23
-932	7,403495E+22	7,403529E+22	7,136255E+22	7,136313E+22	1,480702E+23	1,427257E+23	2,907959E+23
-931	7,403740E+22	7,403608E+22	7,136195E+22	7,136245E+22	1,480735E+23	1,427244E+23	2,907979E+23
-930	7,403413E+22	7,403599E+22	7,136286E+22	7,136218E+22	1,480701E+23	1,427250E+23	2,907952E+23
-929	7,403667E+22	7,403733E+22	7,136310E+22	7,136416E+22	1,480740E+23	1,427273E+23	2,908012E+23
-928	7,403731E+22	7,403619E+22	7,136366E+22	7,136222E+22	1,480735E+23	1,427259E+23	2,907994E+23
-927	7,403450E+22	7,403631E+22	7,136476E+22	7,136321E+22	1,480708E+23	1,427280E+23	2,907988E+23
-926	7,403786E+22	7,403754E+22	7,136345E+22	7,136440E+22	1,480754E+23	1,427278E+23	2,908032E+23
-925	7,403610E+22	7,403574E+22	7,136352E+22	7,136275E+22	1,480718E+23	1,427263E+23	2,907981E+23
-924	7,403461E+22	7,403645E+22	7,136357E+22	7,136431E+22	1,480711E+23	1,427279E+23	2,907989E+23
-923	7,403780E+22	7,403679E+22	7,136237E+22	7,136304E+22	1,480746E+23	1,427254E+23	2,908000E+23
-922	7,403476E+22	7,403506E+22	7,136285E+22	7,136116E+22	1,480698E+23	1,427240E+23	2,907938E+23
-921	7,403607E+22	7,403581E+22	7,136246E+22	7,136269E+22	1,480719E+23	1,427252E+23	2,907970E+23
-920	7,403714E+22	7,403548E+22	7,136186E+22	7,136098E+22	1,480726E+23	1,427228E+23	2,907955E+23
-919	7,403285E+22	7,403525E+22	7,136248E+22	7,136166E+22	1,480681E+23	1,427241E+23	2,907922E+23
-918	7,403548E+22	7,403666E+22	7,136142E+22	7,136296E+22	1,480721E+23	1,427244E+23	2,907965E+23
-917	7,403512E+22	7,403459E+22	7,136204E+22	7,136092E+22	1,480697E+23	1,427230E+23	2,907927E+23
-916	7,403321E+22	7,403458E+22	7,136286E+22	7,136240E+22	1,480678E+23	1,427253E+23	2,907930E+23
-915	7,403741E+22	7,403583E+22	7,136196E+22	7,136249E+22	1,480732E+23	1,427244E+23	2,907977E+23
-914	7,403509E+22	7,403479E+22	7,136271E+22	7,136153E+22	1,480699E+23	1,427242E+23	2,907941E+23
-913	7,403531E+22	7,403627E+22	7,136278E+22	7,136398E+22	1,480716E+23	1,427268E+23	2,907983E+23
-912	7,403788E+22	7,403715E+22	7,136278E+22	7,136310E+22	1,480750E+23	1,427259E+23	2,908009E+23
-911	7,403431E+22	7,403637E+22	7,136444E+22	7,136311E+22	1,480707E+23	1,427275E+23	2,907982E+23
-910	7,403699E+22	7,403777E+22	7,136416E+22	7,136459E+22	1,480748E+23	1,427287E+23	2,908035E+23
-909	7,403809E+22	7,403650E+22	7,136468E+22	7,136310E+22	1,480746E+23	1,427278E+23	2,908024E+23
-908	7,403481E+22	7,403624E+22	7,136514E+22	7,136469E+22	1,480711E+23	1,427298E+23	2,908009E+23
-907	7,403821E+22	7,403804E+22	7,136370E+22	7,136520E+22	1,480763E+23	1,427289E+23	2,908051E+23
-906	7,403644E+22	7,403638E+22	7,136405E+22	7,136323E+22	1,480728E+23	1,427273E+23	2,908001E+23
-905	7,403545E+22	7,403641E+22	7,136375E+22	7,136432E+22	1,480719E+23	1,427281E+23	2,907999E+23
-904	7,403887E+22	7,403711E+22	7,136299E+22	7,136295E+22	1,480760E+23	1,427259E+23	2,908019E+23
-903	7,403516E+22	7,403549E+22	7,136383E+22	7,136190E+22	1,480706E+23	1,427257E+23	2,907964E+23
-902	7,403578E+22	7,403689E+22	7,136278E+22	7,136328E+22	1,480727E+23	1,427261E+23	2,907987E+23
-901	7,403710E+22	7,403652E+22	7,136252E+22	7,136200E+22	1,480736E+23	1,427245E+23	2,907981E+23
-900	7,403282E+22	7,403515E+22	7,136318E+22	7,136281E+22	1,480680E+23	1,427260E+23	2,907940E+23
-899	7,403602E+22	7,403659E+22	7,136238E+22	7,136331E+22	1,480726E+23	1,427257E+23	2,907983E+23
-898	7,403598E+22	7,403476E+22	7,136309E+22	7,136142E+22	1,480707E+23	1,427245E+23	2,907952E+23
-897	7,403425E+22	7,403455E+22	7,136305E+22	7,136312E+22	1,480688E+23	1,427262E+23	2,907950E+23
-896	7,403822E+22	7,403676E+22	7,136224E+22	7,136337E+22	1,480750E+23	1,427256E+23	2,908006E+23
-895	7,403519E+22	7,403580E+22	7,136343E+22	7,136276E+22	1,480710E+23	1,427262E+23	2,907972E+23
-894	7,403531E+22	7,403736E+22	7,136346E+22	7,136432E+22	1,480727E+23	1,427278E+23	2,908005E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-893	7,403867E+22	7,403777E+22	7,136403E+22	7,136349E+22	1,480764E+23	1,427275E+23	2,908040E+23
-892	7,403499E+22	7,403603E+22	7,136563E+22	7,136397E+22	1,480710E+23	1,427296E+23	2,908006E+23
-891	7,403766E+22	7,403806E+22	7,136512E+22	7,136528E+22	1,480757E+23	1,427304E+23	2,908061E+23
-890	7,403836E+22	7,403733E+22	7,136537E+22	7,136421E+22	1,480757E+23	1,427296E+23	2,908053E+23
-889	7,403516E+22	7,403667E+22	7,136512E+22	7,136572E+22	1,480718E+23	1,427308E+23	2,908027E+23
-888	7,403893E+22	7,403862E+22	7,136413E+22	7,136568E+22	1,480776E+23	1,427298E+23	2,908074E+23
-887	7,403689E+22	7,403666E+22	7,136501E+22	7,136374E+22	1,480736E+23	1,427287E+23	2,908023E+23
-886	7,403593E+22	7,403698E+22	7,136436E+22	7,136424E+22	1,480729E+23	1,427286E+23	2,908015E+23
-885	7,403953E+22	7,403772E+22	7,136364E+22	7,136344E+22	1,480772E+23	1,427271E+23	2,908043E+23
-884	7,403495E+22	7,403569E+22	7,136428E+22	7,136317E+22	1,480706E+23	1,427275E+23	2,907981E+23
-883	7,403558E+22	7,403745E+22	7,136330E+22	7,136402E+22	1,480730E+23	1,427273E+23	2,908003E+23
-882	7,403713E+22	7,403678E+22	7,136339E+22	7,136259E+22	1,480739E+23	1,427260E+23	2,907999E+23
-881	7,403365E+22	7,403468E+22	7,136352E+22	7,136320E+22	1,480683E+23	1,427267E+23	2,907951E+23
-880	7,403738E+22	7,403651E+22	7,136294E+22	7,136358E+22	1,480739E+23	1,427265E+23	2,908004E+23
-879	7,403669E+22	7,403527E+22	7,136375E+22	7,136238E+22	1,480720E+23	1,427261E+23	2,907981E+23
-878	7,403448E+22	7,403595E+22	7,136323E+22	7,136368E+22	1,480704E+23	1,427269E+23	2,907973E+23
-877	7,403864E+22	7,403816E+22	7,136299E+22	7,136417E+22	1,480768E+23	1,427272E+23	2,908040E+23
-876	7,403536E+22	7,403627E+22	7,136467E+22	7,136377E+22	1,480716E+23	1,427284E+23	2,908001E+23
-875	7,403581E+22	7,403777E+22	7,136497E+22	7,136469E+22	1,480736E+23	1,427297E+23	2,908032E+23
-874	7,403928E+22	7,403808E+22	7,136559E+22	7,136430E+22	1,480774E+23	1,427299E+23	2,908072E+23
-873	7,403573E+22	7,403595E+22	7,136607E+22	7,136526E+22	1,480717E+23	1,427313E+23	2,908030E+23
-872	7,403820E+22	7,403859E+22	7,136540E+22	7,136657E+22	1,480768E+23	1,427320E+23	2,908088E+23
-871	7,403853E+22	7,403800E+22	7,136577E+22	7,136559E+22	1,480765E+23	1,427314E+23	2,908079E+23
-870	7,403554E+22	7,403730E+22	7,136520E+22	7,136577E+22	1,480728E+23	1,427310E+23	2,908038E+23
-869	7,403998E+22	7,403910E+22	7,136475E+22	7,136562E+22	1,480791E+23	1,427304E+23	2,908094E+23
-868	7,403760E+22	7,403664E+22	7,136574E+22	7,136403E+22	1,480742E+23	1,427298E+23	2,908040E+23
-867	7,403620E+22	7,403760E+22	7,136510E+22	7,136439E+22	1,480738E+23	1,427295E+23	2,908033E+23
-866	7,403928E+22	7,403871E+22	7,136450E+22	7,136421E+22	1,480780E+23	1,427287E+23	2,908067E+23
-865	7,403489E+22	7,403583E+22	7,136461E+22	7,136416E+22	1,480707E+23	1,427288E+23	2,907995E+23
-864	7,403596E+22	7,403746E+22	7,136411E+22	7,136465E+22	1,480734E+23	1,427288E+23	2,908022E+23
-863	7,403761E+22	7,403664E+22	7,136439E+22	7,136346E+22	1,480743E+23	1,427279E+23	2,908021E+23
-862	7,403439E+22	7,403493E+22	7,136386E+22	7,136345E+22	1,480693E+23	1,427273E+23	2,907966E+23
-861	7,403838E+22	7,403729E+22	7,136327E+22	7,136440E+22	1,480757E+23	1,427277E+23	2,908033E+23
-860	7,403689E+22	7,403601E+22	7,136411E+22	7,136364E+22	1,480729E+23	1,427277E+23	2,908006E+23
-859	7,403465E+22	7,403706E+22	7,136402E+22	7,136420E+22	1,480717E+23	1,427282E+23	2,907999E+23
-858	7,403892E+22	7,403894E+22	7,136442E+22	7,136461E+22	1,480779E+23	1,427290E+23	2,908069E+23
-857	7,403612E+22	7,403613E+22	7,136570E+22	7,136442E+22	1,480723E+23	1,427301E+23	2,908024E+23
-856	7,403681E+22	7,403783E+22	7,136610E+22	7,136548E+22	1,480746E+23	1,427316E+23	2,908062E+23
-855	7,403956E+22	7,403852E+22	7,136642E+22	7,136583E+22	1,480781E+23	1,427323E+23	2,908103E+23
-854	7,403589E+22	7,403695E+22	7,136610E+22	7,136620E+22	1,480728E+23	1,427323E+23	2,908051E+23
-853	7,403891E+22	7,403943E+22	7,136565E+22	7,136739E+22	1,480783E+23	1,427330E+23	2,908114E+23
-852	7,403894E+22	7,403819E+22	7,136645E+22	7,136620E+22	1,480771E+23	1,427326E+23	2,908098E+23
-851	7,403633E+22	7,403776E+22	7,136617E+22	7,136551E+22	1,480741E+23	1,427317E+23	2,908058E+23
-850	7,404057E+22	7,403952E+22	7,136598E+22	7,136571E+22	1,480801E+23	1,427317E+23	2,908118E+23
-849	7,403791E+22	7,403681E+22	7,136615E+22	7,136486E+22	1,480747E+23	1,427310E+23	2,908057E+23
-848	7,403620E+22	7,403809E+22	7,136559E+22	7,136534E+22	1,480743E+23	1,427309E+23	2,908052E+23
-847	7,403884E+22	7,403906E+22	7,136517E+22	7,136547E+22	1,480779E+23	1,427306E+23	2,908085E+23
-846	7,403509E+22	7,403596E+22	7,136487E+22	7,136443E+22	1,480711E+23	1,427293E+23	2,908004E+23
-845	7,403710E+22	7,403743E+22	7,136459E+22	7,136502E+22	1,480745E+23	1,427296E+23	2,908041E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-844	7,403842E+22	7,403660E+22	7,136491E+22	7,136422E+22	1,480750E+23	1,427291E+23	2,908042E+23
-843	7,403501E+22	7,403595E+22	7,136429E+22	7,136379E+22	1,480710E+23	1,427281E+23	2,907990E+23
-842	7,403854E+22	7,403872E+22	7,136414E+22	7,136507E+22	1,480773E+23	1,427292E+23	2,908065E+23
-841	7,403717E+22	7,403674E+22	7,136481E+22	7,136451E+22	1,480739E+23	1,427293E+23	2,908032E+23
-840	7,403511E+22	7,403747E+22	7,136549E+22	7,136480E+22	1,480726E+23	1,427303E+23	2,908029E+23
-839	7,403923E+22	7,403915E+22	7,136604E+22	7,136573E+22	1,480784E+23	1,427318E+23	2,908102E+23
-838	7,403672E+22	7,403626E+22	7,136642E+22	7,136519E+22	1,480730E+23	1,427316E+23	2,908046E+23
-837	7,403757E+22	7,403832E+22	7,136647E+22	7,136687E+22	1,480759E+23	1,427333E+23	2,908092E+23
-836	7,403976E+22	7,403897E+22	7,136662E+22	7,136735E+22	1,480787E+23	1,427340E+23	2,908127E+23
-835	7,403638E+22	7,403772E+22	7,136643E+22	7,136651E+22	1,480741E+23	1,427329E+23	2,908070E+23
-834	7,403966E+22	7,404005E+22	7,136664E+22	7,136733E+22	1,480797E+23	1,427340E+23	2,908137E+23
-833	7,403998E+22	7,403818E+22	7,136705E+22	7,136624E+22	1,480782E+23	1,427333E+23	2,908114E+23
-832	7,403716E+22	7,403807E+22	7,136717E+22	7,136571E+22	1,480752E+23	1,427329E+23	2,908081E+23
-831	7,404032E+22	7,404030E+22	7,136686E+22	7,136681E+22	1,480806E+23	1,427337E+23	2,908143E+23
-830	7,403751E+22	7,403764E+22	7,136643E+22	7,136566E+22	1,480751E+23	1,427321E+23	2,908072E+23
-829	7,403638E+22	7,403855E+22	7,136607E+22	7,136637E+22	1,480749E+23	1,427324E+23	2,908074E+23
-828	7,403897E+22	7,403882E+22	7,136591E+22	7,136641E+22	1,480778E+23	1,427323E+23	2,908101E+23
-827	7,403593E+22	7,403607E+22	7,136556E+22	7,136455E+22	1,480720E+23	1,427301E+23	2,908021E+23
-826	7,403801E+22	7,403780E+22	7,136539E+22	7,136540E+22	1,480758E+23	1,427308E+23	2,908066E+23
-825	7,403901E+22	7,403708E+22	7,136501E+22	7,136514E+22	1,480761E+23	1,427301E+23	2,908062E+23
-824	7,403543E+22	7,403686E+22	7,136492E+22	7,136457E+22	1,480723E+23	1,427295E+23	2,908018E+23
-823	7,403834E+22	7,403944E+22	7,136522E+22	7,136596E+22	1,480778E+23	1,427312E+23	2,908090E+23
-822	7,403748E+22	7,403713E+22	7,136570E+22	7,136475E+22	1,480746E+23	1,427304E+23	2,908051E+23
-821	7,403619E+22	7,403755E+22	7,136642E+22	7,136548E+22	1,480737E+23	1,427319E+23	2,908056E+23
-820	7,403962E+22	7,403909E+22	7,136689E+22	7,136699E+22	1,480787E+23	1,427339E+23	2,908126E+23
-819	7,403722E+22	7,403715E+22	7,136688E+22	7,136606E+22	1,480744E+23	1,427329E+23	2,908073E+23
-818	7,403801E+22	7,403930E+22	7,136715E+22	7,136775E+22	1,480773E+23	1,427349E+23	2,908122E+23
-817	7,404038E+22	7,403942E+22	7,136704E+22	7,136810E+22	1,480798E+23	1,427351E+23	2,908150E+23
-816	7,403737E+22	7,403813E+22	7,136754E+22	7,136665E+22	1,480755E+23	1,427342E+23	2,908097E+23
-815	7,404010E+22	7,404048E+22	7,136796E+22	7,136782E+22	1,480806E+23	1,427358E+23	2,908164E+23
-814	7,404037E+22	7,403873E+22	7,136766E+22	7,136665E+22	1,480791E+23	1,427343E+23	2,908134E+23
-813	7,403742E+22	7,403880E+22	7,136754E+22	7,136695E+22	1,480762E+23	1,427345E+23	2,908107E+23
-812	7,403975E+22	7,404069E+22	7,136730E+22	7,136831E+22	1,480804E+23	1,427356E+23	2,908161E+23
-811	7,403760E+22	7,403800E+22	7,136690E+22	7,136611E+22	1,480756E+23	1,427330E+23	2,908086E+23
-810	7,403705E+22	7,403854E+22	7,136697E+22	7,136654E+22	1,480756E+23	1,427335E+23	2,908091E+23
-809	7,404010E+22	7,403842E+22	7,136624E+22	7,136674E+22	1,480785E+23	1,427330E+23	2,908115E+23
-808	7,403701E+22	7,403631E+22	7,136614E+22	7,136479E+22	1,480733E+23	1,427309E+23	2,908043E+23
-807	7,403810E+22	7,403889E+22	7,136599E+22	7,136628E+22	1,480770E+23	1,427323E+23	2,908093E+23
-806	7,403905E+22	7,403816E+22	7,136527E+22	7,136558E+22	1,480772E+23	1,427309E+23	2,908081E+23
-805	7,403578E+22	7,403760E+22	7,136576E+22	7,136538E+22	1,480734E+23	1,427311E+23	2,908045E+23
-804	7,403833E+22	7,403956E+22	7,136655E+22	7,136689E+22	1,480779E+23	1,427334E+23	2,908113E+23
-803	7,403812E+22	7,403731E+22	7,136688E+22	7,136524E+22	1,480754E+23	1,427321E+23	2,908075E+23
-802	7,403691E+22	7,403784E+22	7,136753E+22	7,136647E+22	1,480748E+23	1,427340E+23	2,908088E+23
-801	7,404017E+22	7,403938E+22	7,136701E+22	7,136845E+22	1,480796E+23	1,427355E+23	2,908150E+23
-800	7,403791E+22	7,403780E+22	7,136733E+22	7,136700E+22	1,480757E+23	1,427343E+23	2,908100E+23
-799	7,403837E+22	7,404005E+22	7,136791E+22	7,136850E+22	1,480784E+23	1,427364E+23	2,908148E+23
-798	7,404117E+22	7,403992E+22	7,136763E+22	7,136802E+22	1,480811E+23	1,427356E+23	2,908167E+23
-797	7,403854E+22	7,403866E+22	7,136833E+22	7,136706E+22	1,480772E+23	1,427354E+23	2,908126E+23
-796	7,404014E+22	7,404096E+22	7,136888E+22	7,136876E+22	1,480811E+23	1,427376E+23	2,908187E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-795	7,404031E+22	7,403979E+22	7,136829E+22	7,136739E+22	1,480801E+23	1,427357E+23	2,908158E+23
-794	7,403741E+22	7,403947E+22	7,136843E+22	7,136783E+22	1,480769E+23	1,427363E+23	2,908132E+23
-793	7,403994E+22	7,404053E+22	7,136779E+22	7,136918E+22	1,480805E+23	1,427370E+23	2,908174E+23
-792	7,403859E+22	7,403775E+22	7,136781E+22	7,136641E+22	1,480763E+23	1,427342E+23	2,908106E+23
-791	7,403775E+22	7,403846E+22	7,136769E+22	7,136703E+22	1,480762E+23	1,427347E+23	2,908109E+23
-790	7,404074E+22	7,403880E+22	7,136628E+22	7,136705E+22	1,480795E+23	1,427333E+23	2,908129E+23
-789	7,403762E+22	7,403732E+22	7,136608E+22	7,136569E+22	1,480749E+23	1,427318E+23	2,908067E+23
-788	7,403765E+22	7,403961E+22	7,136653E+22	7,136722E+22	1,480773E+23	1,427338E+23	2,908110E+23
-787	7,403918E+22	7,403894E+22	7,136615E+22	7,136579E+22	1,480781E+23	1,427319E+23	2,908101E+23
-786	7,403645E+22	7,403777E+22	7,136717E+22	7,136571E+22	1,480742E+23	1,427329E+23	2,908071E+23
-785	7,403906E+22	7,403927E+22	7,136737E+22	7,136777E+22	1,480783E+23	1,427351E+23	2,908135E+23
-784	7,403902E+22	7,403758E+22	7,136773E+22	7,136621E+22	1,480766E+23	1,427339E+23	2,908105E+23
-783	7,403708E+22	7,403878E+22	7,136810E+22	7,136787E+22	1,480759E+23	1,427360E+23	2,908118E+23
-782	7,404058E+22	7,404029E+22	7,136723E+22	7,136920E+22	1,480809E+23	1,427364E+23	2,908173E+23
-781	7,403886E+22	7,403867E+22	7,136793E+22	7,136771E+22	1,480775E+23	1,427356E+23	2,908132E+23
-780	7,403881E+22	7,404047E+22	7,136913E+22	7,136908E+22	1,480793E+23	1,427382E+23	2,908175E+23
-779	7,404195E+22	7,404056E+22	7,136875E+22	7,136820E+22	1,480825E+23	1,427369E+23	2,908195E+23
-778	7,403901E+22	7,403932E+22	7,136953E+22	7,136790E+22	1,480783E+23	1,427374E+23	2,908158E+23
-777	7,404007E+22	7,404133E+22	7,136925E+22	7,137012E+22	1,480814E+23	1,427394E+23	2,908208E+23
-776	7,404053E+22	7,403994E+22	7,136896E+22	7,136826E+22	1,480805E+23	1,427372E+23	2,908177E+23
-775	7,403758E+22	7,403953E+22	7,136915E+22	7,136853E+22	1,480771E+23	1,427377E+23	2,908148E+23
-774	7,404084E+22	7,404021E+22	7,136794E+22	7,136909E+22	1,480810E+23	1,427370E+23	2,908181E+23
-773	7,403984E+22	7,403791E+22	7,136787E+22	7,136675E+22	1,480778E+23	1,427346E+23	2,908124E+23
-772	7,403794E+22	7,403912E+22	7,136799E+22	7,136774E+22	1,480771E+23	1,427357E+23	2,908128E+23
-771	7,404080E+22	7,404013E+22	7,136657E+22	7,136737E+22	1,480809E+23	1,427339E+23	2,908149E+23
-770	7,403769E+22	7,403838E+22	7,136714E+22	7,136624E+22	1,480761E+23	1,427334E+23	2,908095E+23
-769	7,403767E+22	7,403979E+22	7,136749E+22	7,136793E+22	1,480775E+23	1,427354E+23	2,908129E+23
-768	7,403988E+22	7,403881E+22	7,136763E+22	7,136632E+22	1,480787E+23	1,427339E+23	2,908126E+23
-767	7,403693E+22	7,403779E+22	7,136835E+22	7,136681E+22	1,480747E+23	1,427352E+23	2,908099E+23
-766	7,403961E+22	7,403947E+22	7,136760E+22	7,136882E+22	1,480791E+23	1,427364E+23	2,908155E+23
-765	7,403977E+22	7,403847E+22	7,136765E+22	7,136770E+22	1,480782E+23	1,427354E+23	2,908136E+23
-764	7,403724E+22	7,403949E+22	7,136854E+22	7,136897E+22	1,480767E+23	1,427375E+23	2,908142E+23
-763	7,404134E+22	7,404114E+22	7,136801E+22	7,136923E+22	1,480825E+23	1,427372E+23	2,908197E+23
-762	7,404005E+22	7,403926E+22	7,136931E+22	7,136775E+22	1,480793E+23	1,427371E+23	2,908164E+23
-761	7,403947E+22	7,404067E+22	7,137008E+22	7,136965E+22	1,480801E+23	1,427397E+23	2,908199E+23
-760	7,404254E+22	7,404116E+22	7,136985E+22	7,136903E+22	1,480837E+23	1,427389E+23	2,908226E+23
-759	7,403881E+22	7,404006E+22	7,137033E+22	7,136918E+22	1,480789E+23	1,427395E+23	2,908184E+23
-758	7,404001E+22	7,404159E+22	7,136957E+22	7,137089E+22	1,480816E+23	1,427405E+23	2,908221E+23
-757	7,404127E+22	7,404019E+22	7,136925E+22	7,136906E+22	1,480815E+23	1,427383E+23	2,908198E+23
-756	7,403800E+22	7,403939E+22	7,136976E+22	7,136909E+22	1,480774E+23	1,427388E+23	2,908162E+23
-755	7,404165E+22	7,404064E+22	7,136833E+22	7,136918E+22	1,480823E+23	1,427375E+23	2,908198E+23
-754	7,404046E+22	7,403877E+22	7,136836E+22	7,136726E+22	1,480792E+23	1,427356E+23	2,908149E+23
-753	7,403783E+22	7,403982E+22	7,136816E+22	7,136859E+22	1,480777E+23	1,427368E+23	2,908144E+23
-752	7,404101E+22	7,404065E+22	7,136748E+22	7,136780E+22	1,480817E+23	1,427353E+23	2,908169E+23
-751	7,403777E+22	7,403864E+22	7,136839E+22	7,136681E+22	1,480764E+23	1,427352E+23	2,908116E+23
-750	7,403826E+22	7,403954E+22	7,136828E+22	7,136827E+22	1,480778E+23	1,427365E+23	2,908143E+23
-749	7,404086E+22	7,403901E+22	7,136810E+22	7,136737E+22	1,480799E+23	1,427355E+23	2,908154E+23
-748	7,403710E+22	7,403835E+22	7,136885E+22	7,136819E+22	1,480755E+23	1,427370E+23	2,908125E+23
-747	7,404006E+22	7,404058E+22	7,136790E+22	7,136962E+22	1,480806E+23	1,427375E+23	2,908182E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-746	7,404046E+22	7,403953E+22	7,136859E+22	7,136838E+22	1,480800E+23	1,427370E+23	2,908170E+23
-745	7,403792E+22	7,403995E+22	7,136949E+22	7,136953E+22	1,480779E+23	1,427390E+23	2,908169E+23
-744	7,404245E+22	7,404132E+22	7,136952E+22	7,136943E+22	1,480838E+23	1,427390E+23	2,908227E+23
-743	7,404051E+22	7,403977E+22	7,137071E+22	7,136864E+22	1,480803E+23	1,427393E+23	2,908196E+23
-742	7,403964E+22	7,404112E+22	7,137049E+22	7,137065E+22	1,480808E+23	1,427411E+23	2,908219E+23
-741	7,404264E+22	7,404189E+22	7,136993E+22	7,137052E+22	1,480845E+23	1,427405E+23	2,908250E+23
-740	7,403860E+22	7,404034E+22	7,137082E+22	7,137035E+22	1,480789E+23	1,427412E+23	2,908201E+23
-739	7,404064E+22	7,404171E+22	7,137002E+22	7,137097E+22	1,480823E+23	1,427410E+23	2,908233E+23
-738	7,404243E+22	7,404036E+22	7,136998E+22	7,136912E+22	1,480828E+23	1,427391E+23	2,908219E+23
-737	7,403874E+22	7,403957E+22	7,136999E+22	7,136945E+22	1,480783E+23	1,427394E+23	2,908177E+23
-736	7,404221E+22	7,404134E+22	7,136893E+22	7,136952E+22	1,480836E+23	1,427384E+23	2,908220E+23
-735	7,404024E+22	7,403989E+22	7,136917E+22	7,136799E+22	1,480801E+23	1,427372E+23	2,908173E+23
-734	7,403772E+22	7,404024E+22	7,136883E+22	7,136900E+22	1,480780E+23	1,427378E+23	2,908158E+23
-733	7,404143E+22	7,404096E+22	7,136833E+22	7,136858E+22	1,480824E+23	1,427369E+23	2,908193E+23
-732	7,403802E+22	7,403843E+22	7,136954E+22	7,136779E+22	1,480764E+23	1,427373E+23	2,908138E+23
-731	7,403888E+22	7,403971E+22	7,136897E+22	7,136903E+22	1,480786E+23	1,427380E+23	2,908166E+23
-730	7,404155E+22	7,403976E+22	7,136861E+22	7,136858E+22	1,480813E+23	1,427372E+23	2,908185E+23
-729	7,403737E+22	7,403894E+22	7,136892E+22	7,136936E+22	1,480763E+23	1,427383E+23	2,908146E+23
-728	7,404093E+22	7,404113E+22	7,136875E+22	7,137004E+22	1,480821E+23	1,427388E+23	2,908209E+23
-727	7,404121E+22	7,404012E+22	7,136975E+22	7,136863E+22	1,480813E+23	1,427384E+23	2,908197E+23
-726	7,403876E+22	7,404014E+22	7,137036E+22	7,136967E+22	1,480789E+23	1,427400E+23	2,908189E+23
-725	7,404318E+22	7,404213E+22	7,137020E+22	7,137040E+22	1,480853E+23	1,427406E+23	2,908259E+23
-724	7,404024E+22	7,404057E+22	7,137154E+22	7,137010E+22	1,480808E+23	1,427416E+23	2,908225E+23
-723	7,403955E+22	7,404202E+22	7,137110E+22	7,137162E+22	1,480816E+23	1,427427E+23	2,908243E+23
-722	7,404304E+22	7,404247E+22	7,137081E+22	7,137135E+22	1,480855E+23	1,427422E+23	2,908277E+23
-721	7,403918E+22	7,404020E+22	7,137142E+22	7,137093E+22	1,480794E+23	1,427424E+23	2,908217E+23
-720	7,404192E+22	7,404149E+22	7,137094E+22	7,137108E+22	1,480834E+23	1,427420E+23	2,908254E+23
-719	7,404302E+22	7,404085E+22	7,137071E+22	7,136962E+22	1,480839E+23	1,427403E+23	2,908242E+23
-718	7,403898E+22	7,404021E+22	7,137005E+22	7,136999E+22	1,480792E+23	1,427400E+23	2,908192E+23
-717	7,404227E+22	7,404231E+22	7,136908E+22	7,137037E+22	1,480846E+23	1,427395E+23	2,908240E+23
-716	7,403990E+22	7,404029E+22	7,137011E+22	7,136878E+22	1,480802E+23	1,427389E+23	2,908191E+23
-715	7,403809E+22	7,404033E+22	7,136977E+22	7,136916E+22	1,480784E+23	1,427389E+23	2,908174E+23
-714	7,404217E+22	7,404104E+22	7,136937E+22	7,136916E+22	1,480832E+23	1,427385E+23	2,908217E+23
-713	7,403855E+22	7,403852E+22	7,136994E+22	7,136888E+22	1,480771E+23	1,427388E+23	2,908159E+23
-712	7,403962E+22	7,404011E+22	7,136945E+22	7,136989E+22	1,480797E+23	1,427393E+23	2,908191E+23
-711	7,404175E+22	7,404078E+22	7,136928E+22	7,136949E+22	1,480825E+23	1,427388E+23	2,908213E+23
-710	7,403795E+22	7,403954E+22	7,136943E+22	7,136971E+22	1,480775E+23	1,427391E+23	2,908166E+23
-709	7,404176E+22	7,404178E+22	7,136959E+22	7,137053E+22	1,480835E+23	1,427401E+23	2,908237E+23
-708	7,404161E+22	7,404055E+22	7,137115E+22	7,136947E+22	1,480822E+23	1,427406E+23	2,908228E+23
-707	7,403917E+22	7,404076E+22	7,137132E+22	7,137047E+22	1,480799E+23	1,427418E+23	2,908217E+23
-706	7,404332E+22	7,404310E+22	7,137100E+22	7,137177E+22	1,480864E+23	1,427428E+23	2,908292E+23
-705	7,404021E+22	7,404093E+22	7,137193E+22	7,137148E+22	1,480811E+23	1,427434E+23	2,908246E+23
-704	7,404033E+22	7,404189E+22	7,137198E+22	7,137212E+22	1,480822E+23	1,427441E+23	2,908263E+23
-703	7,404386E+22	7,404258E+22	7,137177E+22	7,137160E+22	1,480864E+23	1,427434E+23	2,908298E+23
-702	7,404031E+22	7,404015E+22	7,137172E+22	7,137094E+22	1,480805E+23	1,427427E+23	2,908231E+23
-701	7,404276E+22	7,404230E+22	7,137106E+22	7,137166E+22	1,480851E+23	1,427427E+23	2,908278E+23
-700	7,404282E+22	7,404191E+22	7,137125E+22	7,137052E+22	1,480847E+23	1,427418E+23	2,908265E+23
-699	7,403877E+22	7,404122E+22	7,137072E+22	7,137048E+22	1,480800E+23	1,427412E+23	2,908212E+23
-698	7,404232E+22	7,404303E+22	7,137022E+22	7,137096E+22	1,480854E+23	1,427412E+23	2,908265E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-697	7,404010E+22	7,404001E+22	7,137107E+22	7,136951E+22	1,480801E+23	1,427406E+23	2,908207E+23
-696	7,403900E+22	7,403985E+22	7,137089E+22	7,136977E+22	1,480789E+23	1,427407E+23	2,908195E+23
-695	7,404261E+22	7,404130E+22	7,137000E+22	7,137016E+22	1,480839E+23	1,427402E+23	2,908241E+23
-694	7,403892E+22	7,403894E+22	7,136969E+22	7,136982E+22	1,480779E+23	1,427395E+23	2,908174E+23
-693	7,404018E+22	7,404106E+22	7,136936E+22	7,137079E+22	1,480812E+23	1,427402E+23	2,908214E+23
-692	7,404204E+22	7,404138E+22	7,137013E+22	7,137003E+22	1,480834E+23	1,427402E+23	2,908236E+23
-691	7,403877E+22	7,404008E+22	7,137052E+22	7,136965E+22	1,480788E+23	1,427402E+23	2,908190E+23
-690	7,404257E+22	7,404251E+22	7,137088E+22	7,137097E+22	1,480851E+23	1,427419E+23	2,908269E+23
-689	7,404182E+22	7,404109E+22	7,137205E+22	7,137066E+22	1,480829E+23	1,427427E+23	2,908256E+23
-688	7,403957E+22	7,404129E+22	7,137234E+22	7,137162E+22	1,480809E+23	1,427440E+23	2,908248E+23
-687	7,404329E+22	7,404381E+22	7,137204E+22	7,137290E+22	1,480871E+23	1,427449E+23	2,908320E+23
-686	7,404086E+22	7,404101E+22	7,137246E+22	7,137214E+22	1,480819E+23	1,427446E+23	2,908265E+23
-685	7,404149E+22	7,404207E+22	7,137246E+22	7,137268E+22	1,480836E+23	1,427451E+23	2,908287E+23
-684	7,404452E+22	7,404283E+22	7,137263E+22	7,137230E+22	1,480874E+23	1,427449E+23	2,908323E+23
-683	7,404087E+22	7,404098E+22	7,137210E+22	7,137139E+22	1,480818E+23	1,427435E+23	2,908253E+23
-682	7,404277E+22	7,404355E+22	7,137150E+22	7,137245E+22	1,480863E+23	1,427439E+23	2,908303E+23
-681	7,404256E+22	7,404249E+22	7,137175E+22	7,137141E+22	1,480850E+23	1,427432E+23	2,908282E+23
-680	7,403930E+22	7,404098E+22	7,137177E+22	7,137071E+22	1,480803E+23	1,427425E+23	2,908228E+23
-679	7,404259E+22	7,404293E+22	7,137135E+22	7,137127E+22	1,480855E+23	1,427426E+23	2,908281E+23
-678	7,404088E+22	7,403972E+22	7,137134E+22	7,137001E+22	1,480806E+23	1,427414E+23	2,908219E+23
-677	7,403969E+22	7,404029E+22	7,137081E+22	7,137073E+22	1,480800E+23	1,427415E+23	2,908215E+23
-676	7,404262E+22	7,404210E+22	7,137040E+22	7,137129E+22	1,480847E+23	1,427417E+23	2,908264E+23
-675	7,403929E+22	7,403990E+22	7,137013E+22	7,137018E+22	1,480792E+23	1,427403E+23	2,908195E+23
-674	7,404078E+22	7,404203E+22	7,137039E+22	7,137109E+22	1,480828E+23	1,427415E+23	2,908243E+23
-673	7,404265E+22	7,404165E+22	7,137131E+22	7,137058E+22	1,480843E+23	1,427419E+23	2,908262E+23
-672	7,403978E+22	7,404011E+22	7,137204E+22	7,137027E+22	1,480799E+23	1,427423E+23	2,908222E+23
-671	7,404263E+22	7,404329E+22	7,137210E+22	7,137218E+22	1,480859E+23	1,427443E+23	2,908302E+23
-670	7,404198E+22	7,404158E+22	7,137236E+22	7,137206E+22	1,480836E+23	1,427444E+23	2,908280E+23
-669	7,404008E+22	7,404181E+22	7,137265E+22	7,137287E+22	1,480819E+23	1,427455E+23	2,908274E+23
-668	7,404380E+22	7,404395E+22	7,137292E+22	7,137372E+22	1,480877E+23	1,427466E+23	2,908344E+23
-667	7,404196E+22	7,404129E+22	7,137306E+22	7,137223E+22	1,480833E+23	1,427453E+23	2,908285E+23
-666	7,404258E+22	7,404296E+22	7,137302E+22	7,137308E+22	1,480855E+23	1,427461E+23	2,908316E+23
-665	7,404480E+22	7,404360E+22	7,137297E+22	7,137308E+22	1,480884E+23	1,427461E+23	2,908345E+23
-664	7,404115E+22	7,404176E+22	7,137292E+22	7,137197E+22	1,480829E+23	1,427449E+23	2,908278E+23
-663	7,404243E+22	7,404437E+22	7,137261E+22	7,137291E+22	1,480868E+23	1,427455E+23	2,908323E+23
-662	7,404273E+22	7,404234E+22	7,137244E+22	7,137183E+22	1,480851E+23	1,427443E+23	2,908293E+23
-661	7,404003E+22	7,404076E+22	7,137242E+22	7,137135E+22	1,480808E+23	1,427438E+23	2,908246E+23
-660	7,404294E+22	7,404269E+22	7,137212E+22	7,137225E+22	1,480856E+23	1,427444E+23	2,908300E+23
-659	7,404132E+22	7,404020E+22	7,137137E+22	7,137080E+22	1,480815E+23	1,427422E+23	2,908237E+23
-658	7,404007E+22	7,404142E+22	7,137077E+22	7,137161E+22	1,480815E+23	1,427424E+23	2,908239E+23
-657	7,404284E+22	7,404264E+22	7,137078E+22	7,137194E+22	1,480855E+23	1,427427E+23	2,908282E+23
-656	7,404034E+22	7,404012E+22	7,137131E+22	7,137017E+22	1,480805E+23	1,427415E+23	2,908219E+23
-655	7,404133E+22	7,404255E+22	7,137189E+22	7,137117E+22	1,480839E+23	1,427431E+23	2,908269E+23
-654	7,404333E+22	7,404197E+22	7,137210E+22	7,137134E+22	1,480853E+23	1,427434E+23	2,908287E+23
-653	7,404024E+22	7,404087E+22	7,137263E+22	7,137167E+22	1,480811E+23	1,427443E+23	2,908254E+23
-652	7,404235E+22	7,404404E+22	7,137305E+22	7,137383E+22	1,480864E+23	1,427469E+23	2,908333E+23
-651	7,404234E+22	7,404225E+22	7,137302E+22	7,137299E+22	1,480846E+23	1,427460E+23	2,908306E+23
-650	7,404094E+22	7,404241E+22	7,137337E+22	7,137356E+22	1,480834E+23	1,427469E+23	2,908303E+23
-649	7,404473E+22	7,404399E+22	7,137372E+22	7,137438E+22	1,480887E+23	1,427481E+23	2,908368E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-648	7,404328E+22	7,404147E+22	7,137389E+22	7,137255E+22	1,480847E+23	1,427464E+23	2,908312E+23
-647	7,404265E+22	7,404400E+22	7,137374E+22	7,137362E+22	1,480867E+23	1,427474E+23	2,908340E+23
-646	7,404483E+22	7,404431E+22	7,137311E+22	7,137385E+22	1,480891E+23	1,427470E+23	2,908361E+23
-645	7,404139E+22	7,404211E+22	7,137345E+22	7,137260E+22	1,480835E+23	1,427460E+23	2,908295E+23
-644	7,404241E+22	7,404424E+22	7,137377E+22	7,137345E+22	1,480866E+23	1,427472E+23	2,908339E+23
-643	7,404337E+22	7,404219E+22	7,137305E+22	7,137205E+22	1,480856E+23	1,427451E+23	2,908307E+23
-642	7,404076E+22	7,404121E+22	7,137266E+22	7,137206E+22	1,480820E+23	1,427447E+23	2,908267E+23
-641	7,404319E+22	7,404312E+22	7,137221E+22	7,137331E+22	1,480863E+23	1,427455E+23	2,908318E+23
-640	7,404194E+22	7,404087E+22	7,137183E+22	7,137135E+22	1,480828E+23	1,427432E+23	2,908260E+23
-639	7,404022E+22	7,404246E+22	7,137178E+22	7,137184E+22	1,480827E+23	1,427436E+23	2,908263E+23
-638	7,404350E+22	7,404296E+22	7,137157E+22	7,137222E+22	1,480865E+23	1,427438E+23	2,908302E+23
-637	7,404126E+22	7,404043E+22	7,137245E+22	7,137082E+22	1,480817E+23	1,427433E+23	2,908249E+23
-636	7,404144E+22	7,404292E+22	7,137325E+22	7,137244E+22	1,480844E+23	1,427457E+23	2,908301E+23
-635	7,404335E+22	7,404274E+22	7,137265E+22	7,137268E+22	1,480861E+23	1,427453E+23	2,908314E+23
-634	7,404053E+22	7,404190E+22	7,137297E+22	7,137316E+22	1,480824E+23	1,427461E+23	2,908286E+23
-633	7,404279E+22	7,404406E+22	7,137362E+22	7,137487E+22	1,480868E+23	1,427485E+23	2,908353E+23
-632	7,404372E+22	7,404218E+22	7,137394E+22	7,137318E+22	1,480859E+23	1,427471E+23	2,908330E+23
-631	7,404200E+22	7,404298E+22	7,137435E+22	7,137355E+22	1,480850E+23	1,427479E+23	2,908329E+23
-630	7,404560E+22	7,404445E+22	7,137403E+22	7,137482E+22	1,480901E+23	1,427489E+23	2,908389E+23
-629	7,404376E+22	7,404255E+22	7,137436E+22	7,137335E+22	1,480863E+23	1,427477E+23	2,908340E+23
-628	7,404221E+22	7,404488E+22	7,137480E+22	7,137456E+22	1,480871E+23	1,427494E+23	2,908365E+23
-627	7,404472E+22	7,404486E+22	7,137394E+22	7,137433E+22	1,480896E+23	1,427483E+23	2,908379E+23
-626	7,404185E+22	7,404243E+22	7,137424E+22	7,137325E+22	1,480843E+23	1,427475E+23	2,908318E+23
-625	7,404284E+22	7,404372E+22	7,137457E+22	7,137431E+22	1,480866E+23	1,427489E+23	2,908354E+23
-624	7,404427E+22	7,404210E+22	7,137360E+22	7,137277E+22	1,480864E+23	1,427464E+23	2,908327E+23
-623	7,404089E+22	7,404211E+22	7,137292E+22	7,137277E+22	1,480830E+23	1,427457E+23	2,908287E+23
-622	7,404351E+22	7,404368E+22	7,137204E+22	7,137405E+22	1,480872E+23	1,427461E+23	2,908333E+23
-621	7,404267E+22	7,404139E+22	7,137233E+22	7,137167E+22	1,480841E+23	1,427440E+23	2,908281E+23
-620	7,404053E+22	7,404276E+22	7,137313E+22	7,137214E+22	1,480833E+23	1,427453E+23	2,908286E+23
-619	7,404411E+22	7,404340E+22	7,137253E+22	7,137251E+22	1,480875E+23	1,427450E+23	2,908326E+23
-618	7,404175E+22	7,404128E+22	7,137312E+22	7,137191E+22	1,480830E+23	1,427450E+23	2,908281E+23
-617	7,404134E+22	7,404340E+22	7,137398E+22	7,137402E+22	1,480847E+23	1,427480E+23	2,908327E+23
-616	7,404387E+22	7,404317E+22	7,137345E+22	7,137369E+22	1,480870E+23	1,427471E+23	2,908342E+23
-615	7,404090E+22	7,404253E+22	7,137398E+22	7,137367E+22	1,480834E+23	1,427477E+23	2,908311E+23
-614	7,404391E+22	7,404406E+22	7,137418E+22	7,137538E+22	1,480880E+23	1,427496E+23	2,908375E+23
-613	7,404513E+22	7,404241E+22	7,137471E+22	7,137365E+22	1,480875E+23	1,427484E+23	2,908359E+23
-612	7,404238E+22	7,404371E+22	7,137537E+22	7,137443E+22	1,480861E+23	1,427498E+23	2,908359E+23
-611	7,404562E+22	7,404560E+22	7,137439E+22	7,137561E+22	1,480912E+23	1,427500E+23	2,908412E+23
-610	7,404377E+22	7,404374E+22	7,137481E+22	7,137435E+22	1,480875E+23	1,427492E+23	2,908367E+23
-609	7,404216E+22	7,404487E+22	7,137576E+22	7,137538E+22	1,480870E+23	1,427511E+23	2,908382E+23
-608	7,404550E+22	7,404457E+22	7,137495E+22	7,137460E+22	1,480901E+23	1,427496E+23	2,908396E+23
-607	7,404244E+22	7,404264E+22	7,137507E+22	7,137356E+22	1,480851E+23	1,427486E+23	2,908337E+23
-606	7,404353E+22	7,404377E+22	7,137449E+22	7,137514E+22	1,480873E+23	1,427496E+23	2,908369E+23
-605	7,404482E+22	7,404283E+22	7,137371E+22	7,137360E+22	1,480876E+23	1,427473E+23	2,908349E+23
-604	7,404083E+22	7,404299E+22	7,137368E+22	7,137346E+22	1,480838E+23	1,427471E+23	2,908310E+23
-603	7,404371E+22	7,404436E+22	7,137274E+22	7,137415E+22	1,480881E+23	1,427469E+23	2,908350E+23
-602	7,404338E+22	7,404213E+22	7,137325E+22	7,137212E+22	1,480855E+23	1,427454E+23	2,908309E+23
-601	7,404094E+22	7,404256E+22	7,137434E+22	7,137299E+22	1,480835E+23	1,427473E+23	2,908308E+23
-600	7,404452E+22	7,404366E+22	7,137345E+22	7,137349E+22	1,480882E+23	1,427469E+23	2,908351E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-599	7,404169E+22	7,404225E+22	7,137379E+22	7,137305E+22	1,480839E+23	1,427468E+23	2,908308E+23
-598	7,404171E+22	7,404349E+22	7,137416E+22	7,137518E+22	1,480852E+23	1,427493E+23	2,908345E+23
-597	7,404490E+22	7,404329E+22	7,137416E+22	7,137429E+22	1,480882E+23	1,427485E+23	2,908366E+23
-596	7,404180E+22	7,404277E+22	7,137510E+22	7,137406E+22	1,480846E+23	1,427492E+23	2,908337E+23
-595	7,404488E+22	7,404468E+22	7,137475E+22	7,137563E+22	1,480896E+23	1,427504E+23	2,908399E+23
-594	7,404581E+22	7,404388E+22	7,137509E+22	7,137455E+22	1,480897E+23	1,427496E+23	2,908393E+23
-593	7,404222E+22	7,404459E+22	7,137623E+22	7,137562E+22	1,480868E+23	1,427519E+23	2,908387E+23
-592	7,404571E+22	7,404636E+22	7,137550E+22	7,137632E+22	1,480921E+23	1,427518E+23	2,908439E+23
-591	7,404381E+22	7,404435E+22	7,137617E+22	7,137481E+22	1,480882E+23	1,427510E+23	2,908391E+23
-590	7,404283E+22	7,404437E+22	7,137649E+22	7,137613E+22	1,480872E+23	1,427526E+23	2,908398E+23
-589	7,404652E+22	7,404427E+22	7,137562E+22	7,137536E+22	1,480908E+23	1,427510E+23	2,908418E+23
-588	7,404267E+22	7,404299E+22	7,137556E+22	7,137460E+22	1,480857E+23	1,427502E+23	2,908358E+23
-587	7,404375E+22	7,404459E+22	7,137423E+22	7,137584E+22	1,480883E+23	1,427501E+23	2,908384E+23
-586	7,404525E+22	7,404383E+22	7,137366E+22	7,137411E+22	1,480891E+23	1,427478E+23	2,908368E+23
-585	7,404114E+22	7,404306E+22	7,137461E+22	7,137372E+22	1,480842E+23	1,427483E+23	2,908325E+23
-584	7,404452E+22	7,404447E+22	7,137386E+22	7,137397E+22	1,480890E+23	1,427478E+23	2,908368E+23
-583	7,404371E+22	7,404272E+22	7,137443E+22	7,137241E+22	1,480864E+23	1,427468E+23	2,908333E+23
-582	7,404121E+22	7,404280E+22	7,137477E+22	7,137423E+22	1,480840E+23	1,427490E+23	2,908330E+23
-581	7,404480E+22	7,404416E+22	7,137406E+22	7,137475E+22	1,480890E+23	1,427488E+23	2,908378E+23
-580	7,404171E+22	7,404283E+22	7,137478E+22	7,137420E+22	1,480845E+23	1,427490E+23	2,908335E+23
-579	7,404240E+22	7,404390E+22	7,137470E+22	7,137570E+22	1,480863E+23	1,427504E+23	2,908367E+23
-578	7,404610E+22	7,404401E+22	7,137477E+22	7,137493E+22	1,480901E+23	1,427497E+23	2,908398E+23
-577	7,404260E+22	7,404306E+22	7,137617E+22	7,137494E+22	1,480857E+23	1,427511E+23	2,908368E+23
-576	7,404540E+22	7,404565E+22	7,137557E+22	7,137637E+22	1,480910E+23	1,427519E+23	2,908430E+23
-575	7,404571E+22	7,404534E+22	7,137601E+22	7,137540E+22	1,480910E+23	1,427514E+23	2,908425E+23
-574	7,404243E+22	7,404479E+22	7,137686E+22	7,137664E+22	1,480872E+23	1,427535E+23	2,908407E+23
-573	7,404633E+22	7,404622E+22	7,137663E+22	7,137685E+22	1,480926E+23	1,427535E+23	2,908460E+23
-572	7,404440E+22	7,404423E+22	7,137733E+22	7,137544E+22	1,480886E+23	1,427528E+23	2,908414E+23
-571	7,404354E+22	7,404439E+22	7,137666E+22	7,137664E+22	1,480879E+23	1,427533E+23	2,908412E+23
-570	7,404714E+22	7,404526E+22	7,137544E+22	7,137630E+22	1,480924E+23	1,427517E+23	2,908441E+23
-569	7,404281E+22	7,404352E+22	7,137586E+22	7,137539E+22	1,480863E+23	1,427513E+23	2,908376E+23
-568	7,404401E+22	7,404530E+22	7,137484E+22	7,137588E+22	1,480893E+23	1,427507E+23	2,908400E+23
-567	7,404551E+22	7,404473E+22	7,137480E+22	7,137399E+22	1,480902E+23	1,427488E+23	2,908390E+23
-566	7,404178E+22	7,404277E+22	7,137549E+22	7,137422E+22	1,480846E+23	1,427497E+23	2,908343E+23
-565	7,404504E+22	7,404445E+22	7,137497E+22	7,137475E+22	1,480895E+23	1,427497E+23	2,908392E+23
-564	7,404353E+22	7,404326E+22	7,137529E+22	7,137384E+22	1,480868E+23	1,427491E+23	2,908359E+23
-563	7,404117E+22	7,404333E+22	7,137481E+22	7,137545E+22	1,480845E+23	1,427503E+23	2,908348E+23
-562	7,404539E+22	7,404487E+22	7,137421E+22	7,137579E+22	1,480903E+23	1,427500E+23	2,908403E+23
-561	7,404253E+22	7,404276E+22	7,137567E+22	7,137479E+22	1,480853E+23	1,427505E+23	2,908358E+23
-560	7,404369E+22	7,404432E+22	7,137556E+22	7,137575E+22	1,480880E+23	1,427513E+23	2,908393E+23
-559	7,404690E+22	7,404522E+22	7,137578E+22	7,137522E+22	1,480921E+23	1,427510E+23	2,908431E+23
-558	7,404309E+22	7,404384E+22	7,137681E+22	7,137606E+22	1,480869E+23	1,427529E+23	2,908398E+23
-557	7,404560E+22	7,404648E+22	7,137672E+22	7,137730E+22	1,480921E+23	1,427540E+23	2,908461E+23
-556	7,404553E+22	7,404597E+22	7,137751E+22	7,137644E+22	1,480915E+23	1,427540E+23	2,908455E+23
-555	7,404289E+22	7,404484E+22	7,137769E+22	7,137732E+22	1,480877E+23	1,427550E+23	2,908427E+23
-554	7,404731E+22	7,404628E+22	7,137708E+22	7,137767E+22	1,480936E+23	1,427548E+23	2,908483E+23
-553	7,404502E+22	7,404400E+22	7,137791E+22	7,137647E+22	1,480890E+23	1,427544E+23	2,908434E+23
-552	7,404406E+22	7,404512E+22	7,137662E+22	7,137726E+22	1,480892E+23	1,427539E+23	2,908431E+23
-551	7,404720E+22	7,404647E+22	7,137568E+22	7,137664E+22	1,480937E+23	1,427523E+23	2,908460E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-550	7,404324E+22	7,404375E+22	7,137619E+22	7,137577E+22	1,480870E+23	1,427520E+23	2,908390E+23
-549	7,404468E+22	7,404533E+22	7,137594E+22	7,137573E+22	1,480900E+23	1,427517E+23	2,908417E+23
-548	7,404580E+22	7,404498E+22	7,137610E+22	7,137437E+22	1,480908E+23	1,427505E+23	2,908413E+23
-547	7,404208E+22	7,404306E+22	7,137590E+22	7,137500E+22	1,480851E+23	1,427509E+23	2,908360E+23
-546	7,404516E+22	7,404537E+22	7,137511E+22	7,137612E+22	1,480905E+23	1,427512E+23	2,908418E+23
-545	7,404351E+22	7,404360E+22	7,137602E+22	7,137524E+22	1,480871E+23	1,427513E+23	2,908384E+23
-544	7,404171E+22	7,404384E+22	7,137546E+22	7,137597E+22	1,480856E+23	1,427514E+23	2,908370E+23
-543	7,404624E+22	7,404559E+22	7,137531E+22	7,137599E+22	1,480918E+23	1,427513E+23	2,908431E+23
-542	7,404385E+22	7,404272E+22	7,137646E+22	7,137543E+22	1,480866E+23	1,427519E+23	2,908384E+23
-541	7,404463E+22	7,404481E+22	7,137668E+22	7,137638E+22	1,480894E+23	1,427531E+23	2,908425E+23
-540	7,404694E+22	7,404644E+22	7,137683E+22	7,137647E+22	1,480934E+23	1,427533E+23	2,908467E+23
-539	7,404311E+22	7,404456E+22	7,137725E+22	7,137712E+22	1,480877E+23	1,427544E+23	2,908421E+23
-538	7,404591E+22	7,404713E+22	7,137736E+22	7,137828E+22	1,480930E+23	1,427556E+23	2,908487E+23
-537	7,404612E+22	7,404559E+22	7,137864E+22	7,137721E+22	1,480917E+23	1,427559E+23	2,908476E+23
-536	7,404381E+22	7,404484E+22	7,137826E+22	7,137763E+22	1,480887E+23	1,427559E+23	2,908445E+23
-535	7,404795E+22	7,404714E+22	7,137754E+22	7,137816E+22	1,480951E+23	1,427557E+23	2,908508E+23
-534	7,404557E+22	7,404448E+22	7,137782E+22	7,137741E+22	1,480900E+23	1,427552E+23	2,908453E+23
-533	7,404444E+22	7,404582E+22	7,137721E+22	7,137760E+22	1,480903E+23	1,427548E+23	2,908451E+23
-532	7,404720E+22	7,404728E+22	7,137678E+22	7,137697E+22	1,480945E+23	1,427537E+23	2,908482E+23
-531	7,404363E+22	7,404392E+22	7,137694E+22	7,137596E+22	1,480875E+23	1,427529E+23	2,908404E+23
-530	7,404520E+22	7,404565E+22	7,137665E+22	7,137640E+22	1,480908E+23	1,427531E+23	2,908439E+23
-529	7,404587E+22	7,404490E+22	7,137703E+22	7,137565E+22	1,480908E+23	1,427527E+23	2,908435E+23
-528	7,404216E+22	7,404367E+22	7,137613E+22	7,137607E+22	1,480858E+23	1,427522E+23	2,908380E+23
-527	7,404532E+22	7,404617E+22	7,137558E+22	7,137690E+22	1,480915E+23	1,427525E+23	2,908440E+23
-526	7,404436E+22	7,404344E+22	7,137641E+22	7,137597E+22	1,480878E+23	1,427524E+23	2,908402E+23
-525	7,404307E+22	7,404385E+22	7,137646E+22	7,137598E+22	1,480869E+23	1,427524E+23	2,908394E+23
-524	7,404706E+22	7,404619E+22	7,137647E+22	7,137641E+22	1,480933E+23	1,427529E+23	2,908461E+23
-523	7,404451E+22	7,404362E+22	7,137693E+22	7,137619E+22	1,480881E+23	1,427531E+23	2,908412E+23
-522	7,404486E+22	7,404619E+22	7,137710E+22	7,137753E+22	1,480910E+23	1,427546E+23	2,908457E+23
-521	7,404672E+22	7,404703E+22	7,137805E+22	7,137780E+22	1,480938E+23	1,427558E+23	2,908496E+23
-520	7,404341E+22	7,404515E+22	7,137826E+22	7,137781E+22	1,480886E+23	1,427561E+23	2,908446E+23
-519	7,404650E+22	7,404749E+22	7,137856E+22	7,137877E+22	1,480940E+23	1,427573E+23	2,908513E+23
-518	7,404718E+22	7,404520E+22	7,137925E+22	7,137826E+22	1,480924E+23	1,427575E+23	2,908499E+23
-517	7,404474E+22	7,404506E+22	7,137877E+22	7,137835E+22	1,480898E+23	1,427571E+23	2,908469E+23
-516	7,404803E+22	7,404815E+22	7,137794E+22	7,137910E+22	1,480962E+23	1,427570E+23	2,908532E+23
-515	7,404583E+22	7,404520E+22	7,137778E+22	7,137787E+22	1,480910E+23	1,427557E+23	2,908467E+23
-514	7,404492E+22	7,404648E+22	7,137766E+22	7,137776E+22	1,480914E+23	1,427554E+23	2,908468E+23
-513	7,404760E+22	7,404716E+22	7,137803E+22	7,137728E+22	1,480948E+23	1,427553E+23	2,908501E+23
-512	7,404412E+22	7,404421E+22	7,137772E+22	7,137624E+22	1,480883E+23	1,427540E+23	2,908423E+23
-511	7,404526E+22	7,404644E+22	7,137743E+22	7,137717E+22	1,480917E+23	1,427546E+23	2,908463E+23
-510	7,404605E+22	7,404506E+22	7,137731E+22	7,137707E+22	1,480911E+23	1,427544E+23	2,908455E+23
-509	7,404258E+22	7,404393E+22	7,137686E+22	7,137679E+22	1,480865E+23	1,427537E+23	2,908402E+23
-508	7,404579E+22	7,404667E+22	7,137659E+22	7,137753E+22	1,480925E+23	1,427541E+23	2,908466E+23
-507	7,404542E+22	7,404355E+22	7,137683E+22	7,137629E+22	1,480890E+23	1,427531E+23	2,908421E+23
-506	7,404408E+22	7,404454E+22	7,137701E+22	7,137658E+22	1,480886E+23	1,427536E+23	2,908422E+23
-505	7,404734E+22	7,404684E+22	7,137741E+22	7,137758E+22	1,480942E+23	1,427550E+23	2,908492E+23
-504	7,404444E+22	7,404483E+22	7,137746E+22	7,137718E+22	1,480893E+23	1,427546E+23	2,908439E+23
-503	7,404478E+22	7,404727E+22	7,137815E+22	7,137837E+22	1,480920E+23	1,427565E+23	2,908486E+23
-502	7,404731E+22	7,404676E+22	7,137895E+22	7,137759E+22	1,480941E+23	1,427565E+23	2,908506E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-501	7,404457E+22	7,404485E+22	7,137941E+22	7,137818E+22	1,480894E+23	1,427576E+23	2,908470E+23
-500	7,404729E+22	7,404780E+22	7,137946E+22	7,137951E+22	1,480951E+23	1,427590E+23	2,908541E+23
-499	7,404788E+22	7,404581E+22	7,137917E+22	7,137908E+22	1,480937E+23	1,427582E+23	2,908519E+23
-498	7,404520E+22	7,404632E+22	7,137877E+22	7,137916E+22	1,480915E+23	1,427579E+23	2,908495E+23
-497	7,404806E+22	7,404874E+22	7,137888E+22	7,137979E+22	1,480968E+23	1,427587E+23	2,908555E+23
-496	7,404611E+22	7,404595E+22	7,137869E+22	7,137792E+22	1,480921E+23	1,427566E+23	2,908487E+23
-495	7,404533E+22	7,404695E+22	7,137896E+22	7,137787E+22	1,480923E+23	1,427568E+23	2,908491E+23
-494	7,404805E+22	7,404679E+22	7,137886E+22	7,137830E+22	1,480948E+23	1,427572E+23	2,908520E+23
-493	7,404453E+22	7,404433E+22	7,137841E+22	7,137724E+22	1,480889E+23	1,427557E+23	2,908445E+23
-492	7,404505E+22	7,404699E+22	7,137789E+22	7,137842E+22	1,480920E+23	1,427563E+23	2,908483E+23
-491	7,404641E+22	7,404527E+22	7,137724E+22	7,137787E+22	1,480917E+23	1,427551E+23	2,908468E+23
-490	7,404357E+22	7,404430E+22	7,137700E+22	7,137705E+22	1,480879E+23	1,427540E+23	2,908419E+23
-489	7,404660E+22	7,404666E+22	7,137752E+22	7,137787E+22	1,480933E+23	1,427554E+23	2,908487E+23
-488	7,404616E+22	7,404455E+22	7,137738E+22	7,137652E+22	1,480907E+23	1,427539E+23	2,908446E+23
-487	7,404431E+22	7,404595E+22	7,137793E+22	7,137723E+22	1,480903E+23	1,427552E+23	2,908454E+23
-486	7,404733E+22	7,404748E+22	7,137828E+22	7,137892E+22	1,480948E+23	1,427572E+23	2,908520E+23
-485	7,404477E+22	7,404526E+22	7,137887E+22	7,137800E+22	1,480900E+23	1,427569E+23	2,908469E+23
-484	7,404504E+22	7,404756E+22	7,137968E+22	7,137928E+22	1,480926E+23	1,427590E+23	2,908516E+23
-483	7,404827E+22	7,404655E+22	7,137960E+22	7,137961E+22	1,480948E+23	1,427592E+23	2,908540E+23
-482	7,404570E+22	7,404523E+22	7,137971E+22	7,137913E+22	1,480909E+23	1,427588E+23	2,908498E+23
-481	7,404773E+22	7,404831E+22	7,137998E+22	7,138078E+22	1,480960E+23	1,427608E+23	2,908568E+23
-480	7,404811E+22	7,404710E+22	7,137922E+22	7,137969E+22	1,480952E+23	1,427589E+23	2,908541E+23
-479	7,404548E+22	7,404743E+22	7,137960E+22	7,137935E+22	1,480929E+23	1,427590E+23	2,908519E+23
-478	7,404859E+22	7,404863E+22	7,137986E+22	7,138015E+22	1,480972E+23	1,427600E+23	2,908572E+23
-477	7,404688E+22	7,404582E+22	7,137999E+22	7,137801E+22	1,480927E+23	1,427580E+23	2,908507E+23
-476	7,404548E+22	7,404732E+22	7,138002E+22	7,137871E+22	1,480928E+23	1,427587E+23	2,908515E+23
-475	7,404814E+22	7,404706E+22	7,137877E+22	7,137941E+22	1,480952E+23	1,427582E+23	2,908534E+23
-474	7,404470E+22	7,404502E+22	7,137833E+22	7,137829E+22	1,480897E+23	1,427566E+23	2,908463E+23
-473	7,404523E+22	7,404714E+22	7,137855E+22	7,137929E+22	1,480924E+23	1,427578E+23	2,908502E+23
-472	7,404700E+22	7,404580E+22	7,137771E+22	7,137793E+22	1,480928E+23	1,427556E+23	2,908484E+23
-471	7,404448E+22	7,404496E+22	7,137804E+22	7,137710E+22	1,480894E+23	1,427551E+23	2,908446E+23
-470	7,404728E+22	7,404678E+22	7,137834E+22	7,137870E+22	1,480941E+23	1,427570E+23	2,908511E+23
-469	7,404656E+22	7,404531E+22	7,137835E+22	7,137736E+22	1,480919E+23	1,427557E+23	2,908476E+23
-468	7,404407E+22	7,404692E+22	7,137901E+22	7,137844E+22	1,480910E+23	1,427574E+23	2,908484E+23
-467	7,404753E+22	7,404767E+22	7,137888E+22	7,137988E+22	1,480952E+23	1,427588E+23	2,908540E+23
-466	7,404572E+22	7,404543E+22	7,137963E+22	7,137871E+22	1,480911E+23	1,427583E+23	2,908495E+23
-465	7,404595E+22	7,404730E+22	7,138078E+22	7,138022E+22	1,480932E+23	1,427610E+23	2,908543E+23
-464	7,404907E+22	7,404740E+22	7,137993E+22	7,138028E+22	1,480965E+23	1,427602E+23	2,908567E+23
-463	7,404631E+22	7,404665E+22	7,138021E+22	7,137986E+22	1,480930E+23	1,427601E+23	2,908530E+23
-462	7,404800E+22	7,404901E+22	7,138054E+22	7,138177E+22	1,480970E+23	1,427623E+23	2,908593E+23
-461	7,404865E+22	7,404783E+22	7,138043E+22	7,137995E+22	1,480965E+23	1,427604E+23	2,908569E+23
-460	7,404571E+22	7,404788E+22	7,138106E+22	7,137971E+22	1,480936E+23	1,427608E+23	2,908544E+23
-459	7,404903E+22	7,404846E+22	7,138058E+22	7,138074E+22	1,480975E+23	1,427613E+23	2,908588E+23
-458	7,404741E+22	7,404605E+22	7,138033E+22	7,137897E+22	1,480935E+23	1,427593E+23	2,908528E+23
-457	7,404527E+22	7,404740E+22	7,138043E+22	7,138016E+22	1,480927E+23	1,427606E+23	2,908533E+23
-456	7,404805E+22	7,404781E+22	7,137863E+22	7,138016E+22	1,480959E+23	1,427588E+23	2,908546E+23
-455	7,404528E+22	7,404558E+22	7,137877E+22	7,137844E+22	1,480909E+23	1,427572E+23	2,908481E+23
-454	7,404616E+22	7,404684E+22	7,137916E+22	7,137950E+22	1,480930E+23	1,427587E+23	2,908517E+23
-453	7,404820E+22	7,404604E+22	7,137869E+22	7,137777E+22	1,480942E+23	1,427565E+23	2,908507E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-452	7,404482E+22	7,404589E+22	7,137915E+22	7,137768E+22	1,480907E+23	1,427568E+23	2,908475E+23
-451	7,404727E+22	7,404761E+22	7,137879E+22	7,137971E+22	1,480949E+23	1,427585E+23	2,908534E+23
-450	7,404667E+22	7,404626E+22	7,137910E+22	7,137851E+22	1,480929E+23	1,427576E+23	2,908505E+23
-449	7,404410E+22	7,404707E+22	7,138042E+22	7,137976E+22	1,480912E+23	1,427602E+23	2,908513E+23
-448	7,404806E+22	7,404805E+22	7,137974E+22	7,138056E+22	1,480961E+23	1,427603E+23	2,908564E+23
-447	7,404683E+22	7,404586E+22	7,138062E+22	7,137945E+22	1,480927E+23	1,427601E+23	2,908528E+23
-446	7,404687E+22	7,404742E+22	7,138127E+22	7,138153E+22	1,480943E+23	1,427628E+23	2,908571E+23
-445	7,404973E+22	7,404828E+22	7,138047E+22	7,138110E+22	1,480980E+23	1,427616E+23	2,908596E+23
-444	7,404647E+22	7,404784E+22	7,138106E+22	7,138061E+22	1,480943E+23	1,427617E+23	2,908560E+23
-443	7,404843E+22	7,404929E+22	7,138104E+22	7,138203E+22	1,480977E+23	1,427631E+23	2,908608E+23
-442	7,404942E+22	7,404808E+22	7,138124E+22	7,138013E+22	1,480975E+23	1,427614E+23	2,908589E+23
-441	7,404610E+22	7,404774E+22	7,138219E+22	7,138050E+22	1,480938E+23	1,427627E+23	2,908565E+23
-440	7,404903E+22	7,404908E+22	7,138081E+22	7,138143E+22	1,480981E+23	1,427622E+23	2,908604E+23
-439	7,404756E+22	7,404693E+22	7,138071E+22	7,137988E+22	1,480945E+23	1,427606E+23	2,908551E+23
-438	7,404547E+22	7,404740E+22	7,138073E+22	7,138118E+22	1,480929E+23	1,427619E+23	2,908548E+23
-437	7,404877E+22	7,404799E+22	7,137945E+22	7,138026E+22	1,480968E+23	1,427597E+23	2,908565E+23
-436	7,404600E+22	7,404599E+22	7,137985E+22	7,137853E+22	1,480920E+23	1,427584E+23	2,908504E+23
-435	7,404696E+22	7,404692E+22	7,137965E+22	7,137980E+22	1,480939E+23	1,427594E+23	2,908533E+23
-434	7,404881E+22	7,404689E+22	7,137919E+22	7,137859E+22	1,480957E+23	1,427578E+23	2,908535E+23
-433	7,404458E+22	7,404658E+22	7,138002E+22	7,137922E+22	1,480912E+23	1,427592E+23	2,908504E+23
-432	7,404691E+22	7,404859E+22	7,137935E+22	7,138067E+22	1,480955E+23	1,427600E+23	2,908555E+23
-431	7,404722E+22	7,404677E+22	7,138017E+22	7,137925E+22	1,480940E+23	1,427594E+23	2,908534E+23
-430	7,404502E+22	7,404657E+22	7,138137E+22	7,138069E+22	1,480916E+23	1,427621E+23	2,908537E+23
-429	7,404941E+22	7,404822E+22	7,138068E+22	7,138109E+22	1,480976E+23	1,427618E+23	2,908594E+23
-428	7,404758E+22	7,404682E+22	7,138132E+22	7,138026E+22	1,480944E+23	1,427616E+23	2,908560E+23
-427	7,404732E+22	7,404834E+22	7,138136E+22	7,138239E+22	1,480957E+23	1,427637E+23	2,908594E+23
-426	7,405028E+22	7,404943E+22	7,138105E+22	7,138169E+22	1,480997E+23	1,427627E+23	2,908624E+23
-425	7,404661E+22	7,404822E+22	7,138246E+22	7,138134E+22	1,480948E+23	1,427638E+23	2,908586E+23
-424	7,404861E+22	7,404981E+22	7,138206E+22	7,138227E+22	1,480984E+23	1,427643E+23	2,908627E+23
-423	7,405007E+22	7,404839E+22	7,138229E+22	7,138080E+22	1,480985E+23	1,427631E+23	2,908615E+23
-422	7,404634E+22	7,404752E+22	7,138266E+22	7,138189E+22	1,480939E+23	1,427646E+23	2,908584E+23
-421	7,404931E+22	7,404948E+22	7,138110E+22	7,138230E+22	1,480988E+23	1,427634E+23	2,908622E+23
-420	7,404774E+22	7,404750E+22	7,138118E+22	7,138048E+22	1,480952E+23	1,427617E+23	2,908569E+23
-419	7,404622E+22	7,404733E+22	7,138082E+22	7,138130E+22	1,480936E+23	1,427621E+23	2,908557E+23
-418	7,404992E+22	7,404825E+22	7,137996E+22	7,138018E+22	1,480982E+23	1,427601E+23	2,908583E+23
-417	7,404654E+22	7,404635E+22	7,138083E+22	7,137917E+22	1,480929E+23	1,427600E+23	2,908529E+23
-416	7,404685E+22	7,404815E+22	7,138006E+22	7,138035E+22	1,480950E+23	1,427604E+23	2,908554E+23
-415	7,404878E+22	7,404817E+22	7,138001E+22	7,137964E+22	1,480970E+23	1,427597E+23	2,908566E+23
-414	7,404460E+22	7,404673E+22	7,138102E+22	7,138060E+22	1,480913E+23	1,427616E+23	2,908530E+23
-413	7,404749E+22	7,404863E+22	7,138061E+22	7,138128E+22	1,480961E+23	1,427619E+23	2,908580E+23
-412	7,404807E+22	7,404695E+22	7,138146E+22	7,137997E+22	1,480950E+23	1,427614E+23	2,908564E+23
-411	7,404620E+22	7,404644E+22	7,138162E+22	7,138150E+22	1,480926E+23	1,427631E+23	2,908558E+23
-410	7,405033E+22	7,404898E+22	7,138089E+22	7,138201E+22	1,480993E+23	1,427629E+23	2,908622E+23
-409	7,404779E+22	7,404782E+22	7,138191E+22	7,138151E+22	1,480956E+23	1,427634E+23	2,908590E+23
-408	7,404736E+22	7,404950E+22	7,138183E+22	7,138268E+22	1,480969E+23	1,427645E+23	2,908614E+23
-407	7,405098E+22	7,405016E+22	7,138221E+22	7,138193E+22	1,481011E+23	1,427641E+23	2,908653E+23
-406	7,404729E+22	7,404791E+22	7,138364E+22	7,138204E+22	1,480952E+23	1,427657E+23	2,908609E+23
-405	7,404922E+22	7,404997E+22	7,138309E+22	7,138279E+22	1,480992E+23	1,427659E+23	2,908651E+23
-404	7,405020E+22	7,404915E+22	7,138301E+22	7,138184E+22	1,480993E+23	1,427648E+23	2,908642E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-403	7,404654E+22	7,404784E+22	7,138253E+22	7,138292E+22	1,480944E+23	1,427654E+23	2,908598E+23
-402	7,404988E+22	7,404998E+22	7,138139E+22	7,138288E+22	1,480999E+23	1,427643E+23	2,908641E+23
-401	7,404821E+22	7,404772E+22	7,138203E+22	7,138104E+22	1,480959E+23	1,427631E+23	2,908590E+23
-400	7,404671E+22	7,404793E+22	7,138136E+22	7,138123E+22	1,480946E+23	1,427626E+23	2,908572E+23
-399	7,405069E+22	7,404902E+22	7,138075E+22	7,138066E+22	1,480997E+23	1,427614E+23	2,908611E+23
-398	7,404657E+22	7,404668E+22	7,138150E+22	7,138050E+22	1,480933E+23	1,427620E+23	2,908553E+23
-397	7,404678E+22	7,404890E+22	7,138087E+22	7,138126E+22	1,480957E+23	1,427621E+23	2,908578E+23
-396	7,404884E+22	7,404863E+22	7,138105E+22	7,138042E+22	1,480975E+23	1,427615E+23	2,908589E+23
-395	7,404536E+22	7,404630E+22	7,138151E+22	7,138116E+22	1,480917E+23	1,427627E+23	2,908543E+23
-394	7,404886E+22	7,404856E+22	7,138125E+22	7,138170E+22	1,480974E+23	1,427629E+23	2,908604E+23
-393	7,404886E+22	7,404729E+22	7,138217E+22	7,138100E+22	1,480962E+23	1,427632E+23	2,908593E+23
-392	7,404652E+22	7,404783E+22	7,138175E+22	7,138215E+22	1,480943E+23	1,427639E+23	2,908582E+23
-391	7,405083E+22	7,405046E+22	7,138154E+22	7,138283E+22	1,481013E+23	1,427644E+23	2,908657E+23
-390	7,404803E+22	7,404835E+22	7,138308E+22	7,138247E+22	1,480964E+23	1,427655E+23	2,908619E+23
-389	7,404789E+22	7,405000E+22	7,138333E+22	7,138294E+22	1,480979E+23	1,427663E+23	2,908642E+23
-388	7,405149E+22	7,405051E+22	7,138377E+22	7,138255E+22	1,481020E+23	1,427663E+23	2,908683E+23
-387	7,404792E+22	7,404774E+22	7,138412E+22	7,138317E+22	1,480957E+23	1,427673E+23	2,908630E+23
-386	7,404966E+22	7,405038E+22	7,138333E+22	7,138400E+22	1,481000E+23	1,427673E+23	2,908674E+23
-385	7,405015E+22	7,404965E+22	7,138334E+22	7,138325E+22	1,480998E+23	1,427666E+23	2,908664E+23
-384	7,404677E+22	7,404848E+22	7,138251E+22	7,138312E+22	1,480953E+23	1,427656E+23	2,908609E+23
-383	7,405088E+22	7,405041E+22	7,138197E+22	7,138288E+22	1,481013E+23	1,427649E+23	2,908661E+23
-382	7,404908E+22	7,404767E+22	7,138281E+22	7,138138E+22	1,480967E+23	1,427642E+23	2,908609E+23
-381	7,404728E+22	7,404850E+22	7,138217E+22	7,138132E+22	1,480958E+23	1,427635E+23	2,908593E+23
-380	7,405055E+22	7,405011E+22	7,138170E+22	7,138138E+22	1,481007E+23	1,427631E+23	2,908637E+23
-379	7,404659E+22	7,404700E+22	7,138188E+22	7,138151E+22	1,480936E+23	1,427634E+23	2,908570E+23
-378	7,404706E+22	7,404902E+22	7,138174E+22	7,138202E+22	1,480961E+23	1,427638E+23	2,908598E+23
-377	7,404921E+22	7,404858E+22	7,138221E+22	7,138147E+22	1,480978E+23	1,427637E+23	2,908615E+23
-376	7,404611E+22	7,404655E+22	7,138193E+22	7,138159E+22	1,480927E+23	1,427635E+23	2,908562E+23
-375	7,404998E+22	7,404926E+22	7,138171E+22	7,138262E+22	1,480992E+23	1,427643E+23	2,908636E+23
-374	7,404931E+22	7,404804E+22	7,138254E+22	7,138237E+22	1,480973E+23	1,427649E+23	2,908623E+23
-373	7,404685E+22	7,404902E+22	7,138249E+22	7,138272E+22	1,480959E+23	1,427652E+23	2,908611E+23
-372	7,405113E+22	7,405143E+22	7,138293E+22	7,138324E+22	1,481026E+23	1,427662E+23	2,908687E+23
-371	7,404880E+22	7,404831E+22	7,138406E+22	7,138297E+22	1,480971E+23	1,427670E+23	2,908641E+23
-370	7,404880E+22	7,405009E+22	7,138448E+22	7,138356E+22	1,480989E+23	1,427680E+23	2,908669E+23
-369	7,405170E+22	7,405088E+22	7,138466E+22	7,138397E+22	1,481026E+23	1,427686E+23	2,908712E+23
-368	7,404790E+22	7,404868E+22	7,138415E+22	7,138413E+22	1,480966E+23	1,427683E+23	2,908649E+23
-367	7,405021E+22	7,405120E+22	7,138364E+22	7,138495E+22	1,481014E+23	1,427686E+23	2,908700E+23
-366	7,405057E+22	7,404973E+22	7,138399E+22	7,138399E+22	1,481003E+23	1,427680E+23	2,908683E+23
-365	7,404762E+22	7,404887E+22	7,138344E+22	7,138292E+22	1,480965E+23	1,427664E+23	2,908628E+23
-364	7,405160E+22	7,405080E+22	7,138308E+22	7,138287E+22	1,481024E+23	1,427660E+23	2,908683E+23
-363	7,404950E+22	7,404780E+22	7,138315E+22	7,138205E+22	1,480973E+23	1,427652E+23	2,908625E+23
-362	7,404734E+22	7,404915E+22	7,138266E+22	7,138224E+22	1,480965E+23	1,427649E+23	2,908614E+23
-361	7,405004E+22	7,405057E+22	7,138243E+22	7,138271E+22	1,481006E+23	1,427651E+23	2,908658E+23
-360	7,404661E+22	7,404730E+22	7,138229E+22	7,138199E+22	1,480939E+23	1,427643E+23	2,908582E+23
-359	7,404814E+22	7,404902E+22	7,138242E+22	7,138256E+22	1,480972E+23	1,427650E+23	2,908621E+23
-358	7,405011E+22	7,404841E+22	7,138290E+22	7,138238E+22	1,480985E+23	1,427653E+23	2,908638E+23
-357	7,404696E+22	7,404748E+22	7,138244E+22	7,138206E+22	1,480944E+23	1,427645E+23	2,908589E+23
-356	7,405030E+22	7,405069E+22	7,138251E+22	7,138335E+22	1,481010E+23	1,427659E+23	2,908669E+23
-355	7,404970E+22	7,404887E+22	7,138315E+22	7,138323E+22	1,480986E+23	1,427664E+23	2,908650E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-354	7,404742E+22	7,404962E+22	7,138389E+22	7,138326E+22	1,480970E+23	1,427671E+23	2,908642E+23
-353	7,405135E+22	7,405174E+22	7,138460E+22	7,138426E+22	1,481031E+23	1,427689E+23	2,908720E+23
-352	7,404930E+22	7,404860E+22	7,138494E+22	7,138373E+22	1,480979E+23	1,427687E+23	2,908666E+23
-351	7,404949E+22	7,405051E+22	7,138505E+22	7,138496E+22	1,481000E+23	1,427700E+23	2,908700E+23
-350	7,405187E+22	7,405124E+22	7,138497E+22	7,138563E+22	1,481031E+23	1,427706E+23	2,908737E+23
-349	7,404842E+22	7,404929E+22	7,138438E+22	7,138455E+22	1,480977E+23	1,427689E+23	2,908666E+23
-348	7,405088E+22	7,405167E+22	7,138443E+22	7,138491E+22	1,481025E+23	1,427693E+23	2,908719E+23
-347	7,405165E+22	7,404963E+22	7,138436E+22	7,138390E+22	1,481013E+23	1,427683E+23	2,908695E+23
-346	7,404851E+22	7,404909E+22	7,138425E+22	7,138291E+22	1,480976E+23	1,427672E+23	2,908648E+23
-345	7,405136E+22	7,405160E+22	7,138394E+22	7,138382E+22	1,481030E+23	1,427678E+23	2,908707E+23
-344	7,404907E+22	7,404879E+22	7,138342E+22	7,138281E+22	1,480979E+23	1,427662E+23	2,908641E+23
-343	7,404741E+22	7,404975E+22	7,138330E+22	7,138333E+22	1,480972E+23	1,427666E+23	2,908638E+23
-342	7,405012E+22	7,405044E+22	7,138335E+22	7,138383E+22	1,481006E+23	1,427672E+23	2,908677E+23
-341	7,404745E+22	7,404741E+22	7,138314E+22	7,138228E+22	1,480949E+23	1,427654E+23	2,908603E+23
-340	7,404912E+22	7,404933E+22	7,138338E+22	7,138307E+22	1,480985E+23	1,427664E+23	2,908649E+23
-339	7,405094E+22	7,404879E+22	7,138304E+22	7,138337E+22	1,480997E+23	1,427664E+23	2,908661E+23
-338	7,404752E+22	7,404848E+22	7,138304E+22	7,138290E+22	1,480960E+23	1,427659E+23	2,908619E+23
-337	7,405022E+22	7,405165E+22	7,138359E+22	7,138435E+22	1,481019E+23	1,427679E+23	2,908698E+23
-336	7,405000E+22	7,404953E+22	7,138410E+22	7,138353E+22	1,480995E+23	1,427676E+23	2,908672E+23
-335	7,404848E+22	7,404990E+22	7,138507E+22	7,138400E+22	1,480984E+23	1,427691E+23	2,908675E+23
-334	7,405183E+22	7,405166E+22	7,138565E+22	7,138553E+22	1,481035E+23	1,427712E+23	2,908747E+23
-333	7,404981E+22	7,404937E+22	7,138553E+22	7,138464E+22	1,480992E+23	1,427702E+23	2,908694E+23
-332	7,404986E+22	7,405136E+22	7,138565E+22	7,138585E+22	1,481012E+23	1,427715E+23	2,908727E+23
-331	7,405236E+22	7,405147E+22	7,138519E+22	7,138638E+22	1,481038E+23	1,427716E+23	2,908754E+23
-330	7,404931E+22	7,404965E+22	7,138524E+22	7,138464E+22	1,480990E+23	1,427699E+23	2,908688E+23
-329	7,405131E+22	7,405199E+22	7,138550E+22	7,138528E+22	1,481033E+23	1,427708E+23	2,908741E+23
-328	7,405203E+22	7,405017E+22	7,138486E+22	7,138412E+22	1,481022E+23	1,427690E+23	2,908712E+23
-327	7,404885E+22	7,404983E+22	7,138466E+22	7,138399E+22	1,480987E+23	1,427686E+23	2,908673E+23
-326	7,405078E+22	7,405204E+22	7,138446E+22	7,138527E+22	1,481028E+23	1,427697E+23	2,908725E+23
-325	7,404908E+22	7,404926E+22	7,138402E+22	7,138337E+22	1,480983E+23	1,427674E+23	2,908657E+23
-324	7,404797E+22	7,404972E+22	7,138431E+22	7,138362E+22	1,480977E+23	1,427679E+23	2,908656E+23
-323	7,405123E+22	7,404994E+22	7,138378E+22	7,138427E+22	1,481012E+23	1,427681E+23	2,908692E+23
-322	7,404870E+22	7,404761E+22	7,138376E+22	7,138262E+22	1,480963E+23	1,427664E+23	2,908627E+23
-321	7,404936E+22	7,405038E+22	7,138399E+22	7,138409E+22	1,480997E+23	1,427681E+23	2,908678E+23
-320	7,405108E+22	7,405012E+22	7,138337E+22	7,138399E+22	1,481012E+23	1,427674E+23	2,908686E+23
-319	7,404802E+22	7,404945E+22	7,138403E+22	7,138382E+22	1,480975E+23	1,427679E+23	2,908653E+23
-318	7,405034E+22	7,405196E+22	7,138512E+22	7,138538E+22	1,481023E+23	1,427705E+23	2,908728E+23
-317	7,405077E+22	7,404982E+22	7,138541E+22	7,138402E+22	1,481006E+23	1,427694E+23	2,908700E+23
-316	7,404918E+22	7,405013E+22	7,138630E+22	7,138495E+22	1,480993E+23	1,427712E+23	2,908706E+23
-315	7,405236E+22	7,405189E+22	7,138578E+22	7,138697E+22	1,481042E+23	1,427728E+23	2,908770E+23
-314	7,405039E+22	7,404994E+22	7,138585E+22	7,138562E+22	1,481003E+23	1,427715E+23	2,908718E+23
-313	7,405009E+22	7,405201E+22	7,138626E+22	7,138668E+22	1,481021E+23	1,427729E+23	2,908750E+23
-312	7,405307E+22	7,405191E+22	7,138557E+22	7,138624E+22	1,481050E+23	1,427718E+23	2,908768E+23
-311	7,405049E+22	7,405009E+22	7,138592E+22	7,138486E+22	1,481006E+23	1,427708E+23	2,908714E+23
-310	7,405147E+22	7,405240E+22	7,138635E+22	7,138601E+22	1,481039E+23	1,427724E+23	2,908762E+23
-309	7,405202E+22	7,405123E+22	7,138545E+22	7,138466E+22	1,481033E+23	1,427701E+23	2,908734E+23
-308	7,404873E+22	7,405059E+22	7,138560E+22	7,138480E+22	1,480993E+23	1,427704E+23	2,908697E+23
-307	7,405087E+22	7,405191E+22	7,138501E+22	7,138617E+22	1,481028E+23	1,427712E+23	2,908740E+23
-306	7,404989E+22	7,404905E+22	7,138504E+22	7,138380E+22	1,480989E+23	1,427688E+23	2,908678E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-305	7,404864E+22	7,404968E+22	7,138520E+22	7,138436E+22	1,480983E+23	1,427696E+23	2,908679E+23
-304	7,405196E+22	7,405030E+22	7,138398E+22	7,138478E+22	1,481023E+23	1,427688E+23	2,908710E+23
-303	7,404953E+22	7,404868E+22	7,138388E+22	7,138373E+22	1,480982E+23	1,427676E+23	2,908658E+23
-302	7,404922E+22	7,405122E+22	7,138456E+22	7,138519E+22	1,481004E+23	1,427698E+23	2,908702E+23
-301	7,405137E+22	7,405109E+22	7,138430E+22	7,138428E+22	1,481025E+23	1,427686E+23	2,908710E+23
-300	7,404875E+22	7,404979E+22	7,138553E+22	7,138412E+22	1,480985E+23	1,427696E+23	2,908682E+23
-299	7,405104E+22	7,405167E+22	7,138603E+22	7,138618E+22	1,481027E+23	1,427722E+23	2,908749E+23
-298	7,405162E+22	7,405009E+22	7,138638E+22	7,138498E+22	1,481017E+23	1,427714E+23	2,908731E+23
-297	7,404930E+22	7,405093E+22	7,138688E+22	7,138642E+22	1,481002E+23	1,427733E+23	2,908735E+23
-296	7,405263E+22	7,405272E+22	7,138593E+22	7,138778E+22	1,481053E+23	1,427737E+23	2,908791E+23
-295	7,405133E+22	7,405073E+22	7,138632E+22	7,138635E+22	1,481021E+23	1,427727E+23	2,908747E+23
-294	7,405054E+22	7,405233E+22	7,138728E+22	7,138719E+22	1,481029E+23	1,427745E+23	2,908773E+23
-293	7,405390E+22	7,405252E+22	7,138654E+22	7,138623E+22	1,481064E+23	1,427728E+23	2,908792E+23
-292	7,405102E+22	7,405066E+22	7,138704E+22	7,138540E+22	1,481017E+23	1,427724E+23	2,908741E+23
-291	7,405135E+22	7,405275E+22	7,138669E+22	7,138717E+22	1,481041E+23	1,427739E+23	2,908780E+23
-290	7,405213E+22	7,405154E+22	7,138612E+22	7,138552E+22	1,481037E+23	1,427716E+23	2,908753E+23
-289	7,404871E+22	7,405067E+22	7,138640E+22	7,138567E+22	1,480994E+23	1,427721E+23	2,908714E+23
-288	7,405161E+22	7,405169E+22	7,138534E+22	7,138631E+22	1,481033E+23	1,427717E+23	2,908750E+23
-287	7,405123E+22	7,404915E+22	7,138528E+22	7,138435E+22	1,481004E+23	1,427696E+23	2,908700E+23
-286	7,404906E+22	7,405024E+22	7,138558E+22	7,138526E+22	1,480993E+23	1,427708E+23	2,908701E+23
-285	7,405232E+22	7,405165E+22	7,138422E+22	7,138519E+22	1,481040E+23	1,427694E+23	2,908734E+23
-284	7,404972E+22	7,404984E+22	7,138490E+22	7,138429E+22	1,480996E+23	1,427692E+23	2,908688E+23
-283	7,404936E+22	7,405164E+22	7,138555E+22	7,138590E+22	1,481010E+23	1,427714E+23	2,908724E+23
-282	7,405209E+22	7,405118E+22	7,138585E+22	7,138479E+22	1,481033E+23	1,427706E+23	2,908739E+23
-281	7,404920E+22	7,404989E+22	7,138693E+22	7,138529E+22	1,480991E+23	1,427722E+23	2,908713E+23
-280	7,405157E+22	7,405190E+22	7,138645E+22	7,138728E+22	1,481035E+23	1,427737E+23	2,908772E+23
-279	7,405234E+22	7,405092E+22	7,138644E+22	7,138657E+22	1,481033E+23	1,427730E+23	2,908763E+23
-278	7,404946E+22	7,405161E+22	7,138726E+22	7,138769E+22	1,481011E+23	1,427750E+23	2,908760E+23
-277	7,405340E+22	7,405347E+22	7,138656E+22	7,138783E+22	1,481069E+23	1,427744E+23	2,908813E+23
-276	7,405248E+22	7,405126E+22	7,138754E+22	7,138624E+22	1,481037E+23	1,427738E+23	2,908775E+23
-275	7,405133E+22	7,405246E+22	7,138805E+22	7,138750E+22	1,481038E+23	1,427756E+23	2,908794E+23
-274	7,405444E+22	7,405311E+22	7,138755E+22	7,138681E+22	1,481075E+23	1,427744E+23	2,908819E+23
-273	7,405068E+22	7,405152E+22	7,138789E+22	7,138667E+22	1,481022E+23	1,427746E+23	2,908768E+23
-272	7,405108E+22	7,405311E+22	7,138710E+22	7,138800E+22	1,481042E+23	1,427751E+23	2,908793E+23
-271	7,405271E+22	7,405181E+22	7,138662E+22	7,138650E+22	1,481045E+23	1,427731E+23	2,908776E+23
-270	7,404915E+22	7,405042E+22	7,138705E+22	7,138639E+22	1,480996E+23	1,427734E+23	2,908730E+23
-269	7,405251E+22	7,405193E+22	7,138576E+22	7,138648E+22	1,481044E+23	1,427722E+23	2,908767E+23
-268	7,405204E+22	7,404992E+22	7,138575E+22	7,138486E+22	1,481020E+23	1,427706E+23	2,908726E+23
-267	7,404914E+22	7,405093E+22	7,138565E+22	7,138612E+22	1,481001E+23	1,427718E+23	2,908718E+23
-266	7,405260E+22	7,405239E+22	7,138512E+22	7,138568E+22	1,481050E+23	1,427708E+23	2,908758E+23
-265	7,404983E+22	7,405029E+22	7,138622E+22	7,138494E+22	1,481001E+23	1,427712E+23	2,908713E+23
-264	7,404990E+22	7,405155E+22	7,138651E+22	7,138624E+22	1,481014E+23	1,427728E+23	2,908742E+23
-263	7,405311E+22	7,405145E+22	7,138655E+22	7,138589E+22	1,481046E+23	1,427724E+23	2,908770E+23
-262	7,404944E+22	7,405037E+22	7,138756E+22	7,138676E+22	1,480998E+23	1,427743E+23	2,908741E+23
-261	7,405203E+22	7,405297E+22	7,138681E+22	7,138818E+22	1,481050E+23	1,427750E+23	2,908800E+23
-260	7,405304E+22	7,405190E+22	7,138732E+22	7,138728E+22	1,481049E+23	1,427746E+23	2,908795E+23
-259	7,405015E+22	7,405201E+22	7,138805E+22	7,138824E+22	1,481022E+23	1,427763E+23	2,908784E+23
-258	7,405454E+22	7,405376E+22	7,138794E+22	7,138798E+22	1,481083E+23	1,427759E+23	2,908842E+23
-257	7,405294E+22	7,405179E+22	7,138888E+22	7,138703E+22	1,481047E+23	1,427759E+23	2,908806E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-256	7,405148E+22	7,405301E+22	7,138855E+22	7,138839E+22	1,481045E+23	1,427769E+23	2,908814E+23
-255	7,405453E+22	7,405390E+22	7,138770E+22	7,138826E+22	1,481084E+23	1,427760E+23	2,908844E+23
-254	7,405035E+22	7,405179E+22	7,138842E+22	7,138793E+22	1,481021E+23	1,427763E+23	2,908785E+23
-253	7,405162E+22	7,405316E+22	7,138754E+22	7,138813E+22	1,481048E+23	1,427757E+23	2,908805E+23
-252	7,405373E+22	7,405176E+22	7,138734E+22	7,138656E+22	1,481055E+23	1,427739E+23	2,908794E+23
-251	7,404996E+22	7,405047E+22	7,138721E+22	7,138677E+22	1,481004E+23	1,427740E+23	2,908744E+23
-250	7,405322E+22	7,405258E+22	7,138625E+22	7,138682E+22	1,481058E+23	1,427731E+23	2,908789E+23
-249	7,405192E+22	7,405112E+22	7,138651E+22	7,138566E+22	1,481030E+23	1,427722E+23	2,908752E+23
-248	7,404912E+22	7,405158E+22	7,138635E+22	7,138654E+22	1,481007E+23	1,427729E+23	2,908736E+23
-247	7,405305E+22	7,405291E+22	7,138612E+22	7,138648E+22	1,481060E+23	1,427726E+23	2,908786E+23
-246	7,405010E+22	7,405028E+22	7,138757E+22	7,138602E+22	1,481004E+23	1,427736E+23	2,908740E+23
-245	7,405056E+22	7,405174E+22	7,138742E+22	7,138706E+22	1,481023E+23	1,427745E+23	2,908768E+23
-244	7,405377E+22	7,405214E+22	7,138726E+22	7,138717E+22	1,481059E+23	1,427744E+23	2,908803E+23
-243	7,404980E+22	7,405097E+22	7,138763E+22	7,138810E+22	1,481008E+23	1,427757E+23	2,908765E+23
-242	7,405288E+22	7,405352E+22	7,138760E+22	7,138877E+22	1,481064E+23	1,427764E+23	2,908828E+23
-241	7,405378E+22	7,405256E+22	7,138847E+22	7,138769E+22	1,481063E+23	1,427762E+23	2,908825E+23
-240	7,405106E+22	7,405224E+22	7,138889E+22	7,138831E+22	1,481033E+23	1,427772E+23	2,908805E+23
-239	7,405539E+22	7,405455E+22	7,138865E+22	7,138883E+22	1,481099E+23	1,427775E+23	2,908874E+23
-238	7,405277E+22	7,405255E+22	7,138963E+22	7,138832E+22	1,481053E+23	1,427780E+23	2,908833E+23
-237	7,405126E+22	7,405385E+22	7,138908E+22	7,138921E+22	1,481051E+23	1,427783E+23	2,908834E+23
-236	7,405471E+22	7,405446E+22	7,138855E+22	7,138901E+22	1,481092E+23	1,427776E+23	2,908867E+23
-235	7,405077E+22	7,405151E+22	7,138891E+22	7,138852E+22	1,481023E+23	1,427774E+23	2,908797E+23
-234	7,405277E+22	7,405282E+22	7,138843E+22	7,138829E+22	1,481056E+23	1,427767E+23	2,908823E+23
-233	7,405438E+22	7,405208E+22	7,138803E+22	7,138711E+22	1,481065E+23	1,427751E+23	2,908816E+23
-232	7,405030E+22	7,405107E+22	7,138723E+22	7,138729E+22	1,481014E+23	1,427745E+23	2,908759E+23
-231	7,405344E+22	7,405369E+22	7,138637E+22	7,138773E+22	1,481071E+23	1,427741E+23	2,908812E+23
-230	7,405168E+22	7,405170E+22	7,138744E+22	7,138648E+22	1,481034E+23	1,427739E+23	2,908773E+23
-229	7,404952E+22	7,405187E+22	7,138744E+22	7,138672E+22	1,481014E+23	1,427742E+23	2,908755E+23
-228	7,405381E+22	7,405309E+22	7,138738E+22	7,138704E+22	1,481069E+23	1,427744E+23	2,908813E+23
-227	7,405065E+22	7,405037E+22	7,138816E+22	7,138721E+22	1,481010E+23	1,427754E+23	2,908764E+23
-226	7,405133E+22	7,405223E+22	7,138810E+22	7,138816E+22	1,481036E+23	1,427763E+23	2,908798E+23
-225	7,405397E+22	7,405318E+22	7,138804E+22	7,138839E+22	1,481071E+23	1,427764E+23	2,908836E+23
-224	7,405044E+22	7,405165E+22	7,138821E+22	7,138867E+22	1,481021E+23	1,427769E+23	2,908790E+23
-223	7,405391E+22	7,405422E+22	7,138838E+22	7,138933E+22	1,481081E+23	1,427777E+23	2,908859E+23
-222	7,405430E+22	7,405301E+22	7,138978E+22	7,138846E+22	1,481073E+23	1,427782E+23	2,908856E+23
-221	7,405161E+22	7,405289E+22	7,138979E+22	7,138887E+22	1,481045E+23	1,427787E+23	2,908832E+23
-220	7,405545E+22	7,405543E+22	7,138944E+22	7,138992E+22	1,481109E+23	1,427794E+23	2,908902E+23
-219	7,405258E+22	7,405294E+22	7,138999E+22	7,138963E+22	1,481055E+23	1,427796E+23	2,908851E+23
-218	7,405183E+22	7,405368E+22	7,138992E+22	7,138973E+22	1,481055E+23	1,427796E+23	2,908852E+23
-217	7,405530E+22	7,405441E+22	7,138947E+22	7,138934E+22	1,481097E+23	1,427788E+23	2,908885E+23
-216	7,405184E+22	7,405132E+22	7,138913E+22	7,138852E+22	1,481032E+23	1,427776E+23	2,908808E+23
-215	7,405370E+22	7,405346E+22	7,138845E+22	7,138885E+22	1,481072E+23	1,427773E+23	2,908845E+23
-214	7,405429E+22	7,405312E+22	7,138847E+22	7,138801E+22	1,481074E+23	1,427765E+23	2,908839E+23
-213	7,405022E+22	7,405216E+22	7,138784E+22	7,138769E+22	1,481024E+23	1,427755E+23	2,908779E+23
-212	7,405346E+22	7,405452E+22	7,138762E+22	7,138824E+22	1,481080E+23	1,427759E+23	2,908838E+23
-211	7,405191E+22	7,405166E+22	7,138853E+22	7,138729E+22	1,481036E+23	1,427758E+23	2,908794E+23
-210	7,405040E+22	7,405151E+22	7,138882E+22	7,138745E+22	1,481019E+23	1,427763E+23	2,908782E+23
-209	7,405425E+22	7,405342E+22	7,138835E+22	7,138832E+22	1,481077E+23	1,427767E+23	2,908843E+23
-208	7,405112E+22	7,405080E+22	7,138813E+22	7,138839E+22	1,481019E+23	1,427765E+23	2,908784E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-207	7,405201E+22	7,405318E+22	7,138811E+22	7,138937E+22	1,481052E+23	1,427775E+23	2,908827E+23
-206	7,405443E+22	7,405377E+22	7,138880E+22	7,138909E+22	1,481082E+23	1,427779E+23	2,908861E+23
-205	7,405136E+22	7,405217E+22	7,138918E+22	7,138853E+22	1,481035E+23	1,427777E+23	2,908812E+23
-204	7,405481E+22	7,405498E+22	7,138963E+22	7,138958E+22	1,481098E+23	1,427792E+23	2,908890E+23
-203	7,405462E+22	7,405354E+22	7,139058E+22	7,138944E+22	1,481082E+23	1,427800E+23	2,908882E+23
-202	7,405194E+22	7,405346E+22	7,139082E+22	7,138989E+22	1,481054E+23	1,427807E+23	2,908861E+23
-201	7,405524E+22	7,405615E+22	7,139046E+22	7,139104E+22	1,481114E+23	1,427815E+23	2,908929E+23
-200	7,405299E+22	7,405295E+22	7,139050E+22	7,139028E+22	1,481059E+23	1,427808E+23	2,908867E+23
-199	7,405285E+22	7,405377E+22	7,139034E+22	7,139036E+22	1,481066E+23	1,427807E+23	2,908873E+23
-198	7,405593E+22	7,405445E+22	7,139019E+22	7,139001E+22	1,481104E+23	1,427802E+23	2,908906E+23
-197	7,405247E+22	7,405201E+22	7,138942E+22	7,138884E+22	1,481045E+23	1,427783E+23	2,908827E+23
-196	7,405386E+22	7,405472E+22	7,138879E+22	7,138952E+22	1,481086E+23	1,427783E+23	2,908869E+23
-195	7,405406E+22	7,405384E+22	7,138889E+22	7,138887E+22	1,481079E+23	1,427778E+23	2,908857E+23
-194	7,405073E+22	7,405221E+22	7,138907E+22	7,138805E+22	1,481029E+23	1,427771E+23	2,908801E+23
-193	7,405369E+22	7,405457E+22	7,138903E+22	7,138871E+22	1,481083E+23	1,427777E+23	2,908860E+23
-192	7,405270E+22	7,405146E+22	7,138914E+22	7,138796E+22	1,481042E+23	1,427771E+23	2,908813E+23
-191	7,405125E+22	7,405192E+22	7,138894E+22	7,138862E+22	1,481032E+23	1,427776E+23	2,908807E+23
-190	7,405433E+22	7,405416E+22	7,138881E+22	7,138965E+22	1,481085E+23	1,427785E+23	2,908869E+23
-189	7,405161E+22	7,405181E+22	7,138855E+22	7,138887E+22	1,481034E+23	1,427774E+23	2,908808E+23
-188	7,405269E+22	7,405413E+22	7,138907E+22	7,138971E+22	1,481068E+23	1,427788E+23	2,908856E+23
-187	7,405511E+22	7,405416E+22	7,138993E+22	7,138964E+22	1,481093E+23	1,427796E+23	2,908888E+23
-186	7,405247E+22	7,405229E+22	7,139071E+22	7,138906E+22	1,481048E+23	1,427798E+23	2,908845E+23
-185	7,405488E+22	7,405575E+22	7,139093E+22	7,139067E+22	1,481106E+23	1,427816E+23	2,908922E+23
-184	7,405472E+22	7,405411E+22	7,139092E+22	7,139074E+22	1,481088E+23	1,427817E+23	2,908905E+23
-183	7,405230E+22	7,405397E+22	7,139111E+22	7,139117E+22	1,481063E+23	1,427823E+23	2,908885E+23
-182	7,405552E+22	7,405620E+22	7,139129E+22	7,139190E+22	1,481117E+23	1,427832E+23	2,908949E+23
-181	7,405399E+22	7,405304E+22	7,139100E+22	7,139029E+22	1,481070E+23	1,427813E+23	2,908883E+23
-180	7,405388E+22	7,405437E+22	7,139081E+22	7,139064E+22	1,481083E+23	1,427814E+23	2,908897E+23
-179	7,405630E+22	7,405514E+22	7,139041E+22	7,139075E+22	1,481114E+23	1,427812E+23	2,908926E+23
-178	7,405282E+22	7,405282E+22	7,139018E+22	7,138939E+22	1,481056E+23	1,427796E+23	2,908852E+23
-177	7,405354E+22	7,405569E+22	7,138998E+22	7,139005E+22	1,481092E+23	1,427800E+23	2,908893E+23
-176	7,405429E+22	7,405387E+22	7,138969E+22	7,138931E+22	1,481082E+23	1,427790E+23	2,908872E+23
-175	7,405147E+22	7,405211E+22	7,138990E+22	7,138882E+22	1,481036E+23	1,427787E+23	2,908823E+23
-174	7,405408E+22	7,405434E+22	7,138994E+22	7,138978E+22	1,481084E+23	1,427797E+23	2,908881E+23
-173	7,405316E+22	7,405184E+22	7,138932E+22	7,138881E+22	1,481050E+23	1,427781E+23	2,908831E+23
-172	7,405167E+22	7,405302E+22	7,138900E+22	7,138966E+22	1,481047E+23	1,427787E+23	2,908834E+23
-171	7,405468E+22	7,405472E+22	7,138913E+22	7,139050E+22	1,481094E+23	1,427796E+23	2,908890E+23
-170	7,405276E+22	7,405211E+22	7,138973E+22	7,138895E+22	1,481049E+23	1,427787E+23	2,908836E+23
-169	7,405341E+22	7,405475E+22	7,139056E+22	7,138980E+22	1,481082E+23	1,427804E+23	2,908885E+23
-168	7,405590E+22	7,405456E+22	7,139076E+22	7,139025E+22	1,481105E+23	1,427810E+23	2,908915E+23
-167	7,405299E+22	7,405318E+22	7,139137E+22	7,139040E+22	1,481062E+23	1,427818E+23	2,908879E+23
-166	7,405452E+22	7,405655E+22	7,139188E+22	7,139226E+22	1,481111E+23	1,427841E+23	2,908952E+23
-165	7,405488E+22	7,405477E+22	7,139161E+22	7,139162E+22	1,481096E+23	1,427832E+23	2,908929E+23
-164	7,405301E+22	7,405449E+22	7,139184E+22	7,139185E+22	1,481075E+23	1,427837E+23	2,908912E+23
-163	7,405634E+22	7,405611E+22	7,139200E+22	7,139257E+22	1,481124E+23	1,427846E+23	2,908970E+23
-162	7,405532E+22	7,405314E+22	7,139184E+22	7,139063E+22	1,481085E+23	1,427825E+23	2,908909E+23
-161	7,405408E+22	7,405531E+22	7,139148E+22	7,139118E+22	1,481094E+23	1,427827E+23	2,908921E+23
-160	7,405641E+22	7,405592E+22	7,139050E+22	7,139147E+22	1,481123E+23	1,427820E+23	2,908943E+23
-159	7,405314E+22	7,405331E+22	7,139061E+22	7,139001E+22	1,481064E+23	1,427806E+23	2,908871E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-158	7,405342E+22	7,405561E+22	7,139114E+22	7,139058E+22	1,481090E+23	1,427817E+23	2,908907E+23
-157	7,405485E+22	7,405381E+22	7,139042E+22	7,138949E+22	1,481087E+23	1,427799E+23	2,908886E+23
-156	7,405217E+22	7,405245E+22	7,139030E+22	7,138956E+22	1,481046E+23	1,427799E+23	2,908845E+23
-155	7,405433E+22	7,405473E+22	7,139015E+22	7,139101E+22	1,481091E+23	1,427812E+23	2,908902E+23
-154	7,405386E+22	7,405250E+22	7,138984E+22	7,138958E+22	1,481064E+23	1,427794E+23	2,908858E+23
-153	7,405191E+22	7,405406E+22	7,139001E+22	7,139009E+22	1,481060E+23	1,427801E+23	2,908861E+23
-152	7,405546E+22	7,405517E+22	7,138991E+22	7,139086E+22	1,481106E+23	1,427808E+23	2,908914E+23
-151	7,405383E+22	7,405255E+22	7,139085E+22	7,138959E+22	1,481064E+23	1,427804E+23	2,908868E+23
-150	7,405362E+22	7,405521E+22	7,139199E+22	7,139098E+22	1,481088E+23	1,427830E+23	2,908918E+23
-149	7,405601E+22	7,405542E+22	7,139140E+22	7,139144E+22	1,481114E+23	1,427828E+23	2,908943E+23
-148	7,405314E+22	7,405423E+22	7,139182E+22	7,139189E+22	1,481074E+23	1,427837E+23	2,908911E+23
-147	7,405478E+22	7,405666E+22	7,139252E+22	7,139345E+22	1,481114E+23	1,427860E+23	2,908974E+23
-146	7,405612E+22	7,405461E+22	7,139261E+22	7,139195E+22	1,481107E+23	1,427846E+23	2,908953E+23
-145	7,405405E+22	7,405489E+22	7,139280E+22	7,139195E+22	1,481089E+23	1,427848E+23	2,908937E+23
-144	7,405737E+22	7,405637E+22	7,139215E+22	7,139293E+22	1,481137E+23	1,427851E+23	2,908988E+23
-143	7,405589E+22	7,405413E+22	7,139208E+22	7,139132E+22	1,481100E+23	1,427834E+23	2,908934E+23
-142	7,405369E+22	7,405623E+22	7,139230E+22	7,139195E+22	1,481099E+23	1,427843E+23	2,908942E+23
-141	7,405621E+22	7,405652E+22	7,139124E+22	7,139176E+22	1,481127E+23	1,427830E+23	2,908957E+23
-140	7,405344E+22	7,405373E+22	7,139150E+22	7,139063E+22	1,481072E+23	1,427821E+23	2,908893E+23
-139	7,405376E+22	7,405515E+22	7,139202E+22	7,139148E+22	1,481089E+23	1,427835E+23	2,908924E+23
-138	7,405572E+22	7,405365E+22	7,139119E+22	7,139030E+22	1,481094E+23	1,427815E+23	2,908909E+23
-137	7,405238E+22	7,405331E+22	7,139066E+22	7,139047E+22	1,481057E+23	1,427811E+23	2,908868E+23
-136	7,405476E+22	7,405530E+22	7,139000E+22	7,139190E+22	1,481101E+23	1,427819E+23	2,908920E+23
-135	7,405470E+22	7,405317E+22	7,139030E+22	7,139009E+22	1,481079E+23	1,427804E+23	2,908883E+23
-134	7,405238E+22	7,405446E+22	7,139133E+22	7,139043E+22	1,481068E+23	1,427818E+23	2,908886E+23
-133	7,405617E+22	7,405571E+22	7,139095E+22	7,139104E+22	1,481119E+23	1,427820E+23	2,908939E+23
-132	7,405444E+22	7,405357E+22	7,139170E+22	7,139063E+22	1,481080E+23	1,427823E+23	2,908903E+23
-131	7,405351E+22	7,405585E+22	7,139287E+22	7,139258E+22	1,481094E+23	1,427854E+23	2,908948E+23
-130	7,405645E+22	7,405599E+22	7,139245E+22	7,139262E+22	1,481124E+23	1,427851E+23	2,908975E+23
-129	7,405348E+22	7,405483E+22	7,139296E+22	7,139261E+22	1,481083E+23	1,427856E+23	2,908939E+23
-128	7,405585E+22	7,405655E+22	7,139311E+22	7,139406E+22	1,481124E+23	1,427872E+23	2,908996E+23
-127	7,405757E+22	7,405473E+22	7,139320E+22	7,139242E+22	1,481123E+23	1,427856E+23	2,908979E+23
-126	7,405444E+22	7,405538E+22	7,139358E+22	7,139269E+22	1,481098E+23	1,427863E+23	2,908961E+23
-125	7,405741E+22	7,405748E+22	7,139232E+22	7,139350E+22	1,481149E+23	1,427858E+23	2,909007E+23
-124	7,405586E+22	7,405534E+22	7,139237E+22	7,139214E+22	1,481112E+23	1,427845E+23	2,908957E+23
-123	7,405351E+22	7,405631E+22	7,139322E+22	7,139268E+22	1,481098E+23	1,427859E+23	2,908957E+23
-122	7,405689E+22	7,405626E+22	7,139236E+22	7,139196E+22	1,481131E+23	1,427843E+23	2,908975E+23
-121	7,405394E+22	7,405385E+22	7,139247E+22	7,139098E+22	1,481078E+23	1,427834E+23	2,908912E+23
-120	7,405444E+22	7,405511E+22	7,139207E+22	7,139239E+22	1,481096E+23	1,427845E+23	2,908940E+23
-119	7,405631E+22	7,405431E+22	7,139128E+22	7,139130E+22	1,481106E+23	1,427826E+23	2,908932E+23
-118	7,405236E+22	7,405417E+22	7,139136E+22	7,139130E+22	1,481065E+23	1,427827E+23	2,908892E+23
-117	7,405512E+22	7,405607E+22	7,139065E+22	7,139207E+22	1,481112E+23	1,427827E+23	2,908939E+23
-116	7,405549E+22	7,405404E+22	7,139128E+22	7,139058E+22	1,481095E+23	1,427819E+23	2,908914E+23
-115	7,405292E+22	7,405452E+22	7,139271E+22	7,139134E+22	1,481074E+23	1,427840E+23	2,908915E+23
-114	7,405675E+22	7,405608E+22	7,139219E+22	7,139206E+22	1,481128E+23	1,427843E+23	2,908971E+23
-113	7,405445E+22	7,405464E+22	7,139267E+22	7,139193E+22	1,481091E+23	1,427846E+23	2,908937E+23
-112	7,405392E+22	7,405601E+22	7,139314E+22	7,139388E+22	1,481099E+23	1,427870E+23	2,908969E+23
-111	7,405738E+22	7,405610E+22	7,139313E+22	7,139337E+22	1,481135E+23	1,427865E+23	2,909000E+23
-110	7,405433E+22	7,405498E+22	7,139393E+22	7,139305E+22	1,481093E+23	1,427870E+23	2,908963E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-109	7,405682E+22	7,405697E+22	7,139350E+22	7,139419E+22	1,481138E+23	1,427877E+23	2,909015E+23
-108	7,405827E+22	7,405607E+22	7,139343E+22	7,139317E+22	1,481143E+23	1,427866E+23	2,909009E+23
-107	7,405434E+22	7,405628E+22	7,139423E+22	7,139371E+22	1,481106E+23	1,427879E+23	2,908986E+23
-106	7,405746E+22	7,405825E+22	7,139337E+22	7,139403E+22	1,481157E+23	1,427874E+23	2,909031E+23
-105	7,405580E+22	7,405602E+22	7,139372E+22	7,139251E+22	1,481118E+23	1,427862E+23	2,908981E+23
-104	7,405405E+22	7,405584E+22	7,139399E+22	7,139334E+22	1,481099E+23	1,427873E+23	2,908972E+23
-103	7,405777E+22	7,405596E+22	7,139311E+22	7,139276E+22	1,481137E+23	1,427859E+23	2,908996E+23
-102	7,405417E+22	7,405405E+22	7,139301E+22	7,139207E+22	1,481082E+23	1,427851E+23	2,908933E+23
-101	7,405464E+22	7,405584E+22	7,139186E+22	7,139318E+22	1,481105E+23	1,427850E+23	2,908955E+23
-100	7,405679E+22	7,405542E+22	7,139128E+22	7,139205E+22	1,481122E+23	1,427833E+23	2,908955E+23
-99	7,405277E+22	7,405440E+22	7,139233E+22	7,139174E+22	1,481072E+23	1,427841E+23	2,908912E+23
-98	7,405612E+22	7,405635E+22	7,139199E+22	7,139203E+22	1,481125E+23	1,427840E+23	2,908965E+23
-97	7,405606E+22	7,405474E+22	7,139263E+22	7,139092E+22	1,481108E+23	1,427835E+23	2,908943E+23
-96	7,405333E+22	7,405486E+22	7,139333E+22	7,139260E+22	1,481082E+23	1,427859E+23	2,908941E+23
-95	7,405706E+22	7,405675E+22	7,139286E+22	7,139340E+22	1,481138E+23	1,427863E+23	2,909001E+23
-94	7,405435E+22	7,405518E+22	7,139368E+22	7,139320E+22	1,481095E+23	1,427869E+23	2,908964E+23
-93	7,405447E+22	7,405639E+22	7,139373E+22	7,139450E+22	1,481109E+23	1,427882E+23	2,908991E+23
-92	7,405853E+22	7,405670E+22	7,139368E+22	7,139406E+22	1,481152E+23	1,427877E+23	2,909030E+23
-91	7,405519E+22	7,405516E+22	7,139488E+22	7,139386E+22	1,481103E+23	1,427887E+23	2,908991E+23
-90	7,405752E+22	7,405780E+22	7,139422E+22	7,139477E+22	1,481153E+23	1,427890E+23	2,909043E+23
-89	7,405820E+22	7,405750E+22	7,139420E+22	7,139385E+22	1,481157E+23	1,427881E+23	2,909038E+23
-88	7,405449E+22	7,405658E+22	7,139475E+22	7,139456E+22	1,481111E+23	1,427893E+23	2,909004E+23
-87	7,405794E+22	7,405815E+22	7,139441E+22	7,139444E+22	1,481161E+23	1,427889E+23	2,909049E+23
-86	7,405617E+22	7,405581E+22	7,139490E+22	7,139305E+22	1,481120E+23	1,427880E+23	2,908999E+23
-85	7,405467E+22	7,405576E+22	7,139423E+22	7,139383E+22	1,481104E+23	1,427881E+23	2,908985E+23
-84	7,405830E+22	7,405680E+22	7,139300E+22	7,139380E+22	1,481151E+23	1,427868E+23	2,909019E+23
-83	7,405433E+22	7,405465E+22	7,139336E+22	7,139308E+22	1,481090E+23	1,427864E+23	2,908954E+23
-82	7,405510E+22	7,405655E+22	7,139253E+22	7,139343E+22	1,481117E+23	1,427860E+23	2,908976E+23
-81	7,405722E+22	7,405641E+22	7,139251E+22	7,139209E+22	1,481136E+23	1,427846E+23	2,908982E+23
-80	7,405365E+22	7,405430E+22	7,139324E+22	7,139225E+22	1,481079E+23	1,427855E+23	2,908934E+23
-79	7,405675E+22	7,405645E+22	7,139319E+22	7,139278E+22	1,481132E+23	1,427860E+23	2,908992E+23
-78	7,405595E+22	7,405542E+22	7,139364E+22	7,139236E+22	1,481114E+23	1,427860E+23	2,908974E+23
-77	7,405327E+22	7,405548E+22	7,139351E+22	7,139389E+22	1,481087E+23	1,427874E+23	2,908961E+23
-76	7,405750E+22	7,405754E+22	7,139314E+22	7,139464E+22	1,481150E+23	1,427878E+23	2,909028E+23
-75	7,405516E+22	7,405512E+22	7,139461E+22	7,139395E+22	1,481103E+23	1,427886E+23	2,908988E+23
-74	7,405585E+22	7,405664E+22	7,139462E+22	7,139461E+22	1,481125E+23	1,427892E+23	2,909017E+23
-73	7,405944E+22	7,405779E+22	7,139464E+22	7,139431E+22	1,481172E+23	1,427889E+23	2,909062E+23
-72	7,405580E+22	7,405590E+22	7,139533E+22	7,139477E+22	1,481117E+23	1,427901E+23	2,909018E+23
-71	7,405772E+22	7,405872E+22	7,139520E+22	7,139553E+22	1,481164E+23	1,427907E+23	2,909072E+23
-70	7,405795E+22	7,405819E+22	7,139557E+22	7,139471E+22	1,481161E+23	1,427903E+23	2,909064E+23
-69	7,405470E+22	7,405665E+22	7,139559E+22	7,139511E+22	1,481113E+23	1,427907E+23	2,909020E+23
-68	7,405865E+22	7,405829E+22	7,139498E+22	7,139532E+22	1,481169E+23	1,427903E+23	2,909072E+23
-67	7,405669E+22	7,405549E+22	7,139561E+22	7,139419E+22	1,481122E+23	1,427898E+23	2,909020E+23
-66	7,405527E+22	7,405631E+22	7,139436E+22	7,139462E+22	1,481116E+23	1,427890E+23	2,909006E+23
-65	7,405850E+22	7,405791E+22	7,139321E+22	7,139429E+22	1,481164E+23	1,427875E+23	2,909039E+23
-64	7,405488E+22	7,405489E+22	7,139359E+22	7,139353E+22	1,481098E+23	1,427871E+23	2,908969E+23
-63	7,405592E+22	7,405672E+22	7,139352E+22	7,139329E+22	1,481126E+23	1,427868E+23	2,908995E+23
-62	7,405759E+22	7,405671E+22	7,139378E+22	7,139239E+22	1,481143E+23	1,427862E+23	2,909005E+23
-61	7,405399E+22	7,405469E+22	7,139383E+22	7,139297E+22	1,481087E+23	1,427868E+23	2,908955E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-60	7,405686E+22	7,405748E+22	7,139349E+22	7,139422E+22	1,481143E+23	1,427877E+23	2,909020E+23
-59	7,405587E+22	7,405586E+22	7,139453E+22	7,139389E+22	1,481117E+23	1,427884E+23	2,909001E+23
-58	7,405386E+22	7,405597E+22	7,139434E+22	7,139460E+22	1,481098E+23	1,427889E+23	2,908988E+23
-57	7,405835E+22	7,405819E+22	7,139430E+22	7,139497E+22	1,481165E+23	1,427893E+23	2,909058E+23
-56	7,405655E+22	7,405506E+22	7,139535E+22	7,139461E+22	1,481116E+23	1,427900E+23	2,909016E+23
-55	7,405698E+22	7,405706E+22	7,139559E+22	7,139516E+22	1,481140E+23	1,427908E+23	2,909048E+23
-54	7,405953E+22	7,405896E+22	7,139556E+22	7,139541E+22	1,481185E+23	1,427910E+23	2,909095E+23
-53	7,405579E+22	7,405680E+22	7,139571E+22	7,139571E+22	1,481126E+23	1,427914E+23	2,909040E+23
-52	7,405785E+22	7,405950E+22	7,139583E+22	7,139645E+22	1,481174E+23	1,427923E+23	2,909096E+23
-51	7,405837E+22	7,405793E+22	7,139681E+22	7,139550E+22	1,481163E+23	1,427923E+23	2,909086E+23
-50	7,405562E+22	7,405649E+22	7,139630E+22	7,139544E+22	1,481121E+23	1,427917E+23	2,909039E+23
-49	7,405925E+22	7,405893E+22	7,139551E+22	7,139584E+22	1,481182E+23	1,427914E+23	2,909095E+23
-48	7,405730E+22	7,405585E+22	7,139541E+22	7,139513E+22	1,481132E+23	1,427905E+23	2,909037E+23
-47	7,405565E+22	7,405692E+22	7,139474E+22	7,139501E+22	1,481126E+23	1,427898E+23	2,909023E+23
-46	7,405852E+22	7,405874E+22	7,139418E+22	7,139463E+22	1,481173E+23	1,427888E+23	2,909061E+23
-45	7,405532E+22	7,405518E+22	7,139429E+22	7,139366E+22	1,481105E+23	1,427879E+23	2,908984E+23
-44	7,405646E+22	7,405721E+22	7,139435E+22	7,139393E+22	1,481137E+23	1,427883E+23	2,909020E+23
-43	7,405778E+22	7,405677E+22	7,139491E+22	7,139366E+22	1,481146E+23	1,427886E+23	2,909031E+23
-42	7,405416E+22	7,405533E+22	7,139434E+22	7,139414E+22	1,481095E+23	1,427885E+23	2,908980E+23
-41	7,405697E+22	7,405840E+22	7,139416E+22	7,139520E+22	1,481154E+23	1,427894E+23	2,909047E+23
-40	7,405671E+22	7,405575E+22	7,139500E+22	7,139481E+22	1,481125E+23	1,427898E+23	2,909023E+23
-39	7,405522E+22	7,405596E+22	7,139534E+22	7,139478E+22	1,481112E+23	1,427901E+23	2,909013E+23
-38	7,405931E+22	7,405872E+22	7,139542E+22	7,139544E+22	1,481180E+23	1,427909E+23	2,909089E+23
-37	7,405728E+22	7,405595E+22	7,139578E+22	7,139528E+22	1,481132E+23	1,427911E+23	2,909043E+23
-36	7,405726E+22	7,405862E+22	7,139601E+22	7,139631E+22	1,481159E+23	1,427923E+23	2,909082E+23
-35	7,405935E+22	7,405969E+22	7,139679E+22	7,139669E+22	1,481190E+23	1,427935E+23	2,909125E+23
-34	7,405607E+22	7,405741E+22	7,139685E+22	7,139640E+22	1,481135E+23	1,427933E+23	2,909067E+23
-33	7,405832E+22	7,405983E+22	7,139705E+22	7,139688E+22	1,481181E+23	1,427939E+23	2,909121E+23
-32	7,405927E+22	7,405738E+22	7,139739E+22	7,139646E+22	1,481167E+23	1,427938E+23	2,909105E+23
-31	7,405649E+22	7,405652E+22	7,139672E+22	7,139613E+22	1,481130E+23	1,427929E+23	2,909059E+23
-30	7,405929E+22	7,405968E+22	7,139573E+22	7,139677E+22	1,481190E+23	1,427925E+23	2,909115E+23
-29	7,405750E+22	7,405654E+22	7,139522E+22	7,139560E+22	1,481140E+23	1,427908E+23	2,909049E+23
-28	7,405615E+22	7,405766E+22	7,139504E+22	7,139521E+22	1,481138E+23	1,427903E+23	2,909041E+23
-27	7,405898E+22	7,405870E+22	7,139543E+22	7,139488E+22	1,481177E+23	1,427903E+23	2,909080E+23
-26	7,405598E+22	7,405553E+22	7,139521E+22	7,139388E+22	1,481115E+23	1,427891E+23	2,909006E+23
-25	7,405658E+22	7,405806E+22	7,139530E+22	7,139465E+22	1,481146E+23	1,427900E+23	2,909046E+23
-24	7,405794E+22	7,405708E+22	7,139535E+22	7,139513E+22	1,481150E+23	1,427905E+23	2,909055E+23
-23	7,405461E+22	7,405566E+22	7,139516E+22	7,139503E+22	1,481103E+23	1,427902E+23	2,909005E+23
-22	7,405738E+22	7,405886E+22	7,139527E+22	7,139603E+22	1,481162E+23	1,427913E+23	2,909075E+23
-21	7,405776E+22	7,405599E+22	7,139552E+22	7,139534E+22	1,481137E+23	1,427909E+23	2,909046E+23
-20	7,405635E+22	7,405672E+22	7,139592E+22	7,139557E+22	1,481131E+23	1,427915E+23	2,909046E+23
-19	7,405981E+22	7,405944E+22	7,139647E+22	7,139667E+22	1,481192E+23	1,427931E+23	2,909124E+23
-18	7,405749E+22	7,405721E+22	7,139636E+22	7,139624E+22	1,481147E+23	1,427926E+23	2,909073E+23
-17	7,405719E+22	7,405982E+22	7,139708E+22	7,139707E+22	1,481170E+23	1,427941E+23	2,909112E+23
-16	7,405988E+22	7,405952E+22	7,139764E+22	7,139754E+22	1,481194E+23	1,427952E+23	2,909146E+23
-15	7,405705E+22	7,405700E+22	7,139796E+22	7,139669E+22	1,481141E+23	1,427947E+23	2,909087E+23
-14	7,405892E+22	7,405993E+22	7,139794E+22	7,139757E+22	1,481189E+23	1,427955E+23	2,909144E+23
-13	7,405985E+22	7,405779E+22	7,139721E+22	7,139722E+22	1,481176E+23	1,427944E+23	2,909121E+23
-12	7,405687E+22	7,405768E+22	7,139654E+22	7,139696E+22	1,481145E+23	1,427935E+23	2,909081E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-11	7,405936E+22	7,406025E+22	7,139649E+22	7,139745E+22	1,481196E+23	1,427939E+23	2,909136E+23
-10	7,405787E+22	7,405726E+22	7,139604E+22	7,139559E+22	1,481151E+23	1,427916E+23	2,909068E+23
-9	7,405658E+22	7,405826E+22	7,139636E+22	7,139523E+22	1,481148E+23	1,427916E+23	2,909064E+23
-8	7,405951E+22	7,405842E+22	7,139633E+22	7,139577E+22	1,481179E+23	1,427921E+23	2,909100E+23
-7	7,405639E+22	7,405570E+22	7,139608E+22	7,139491E+22	1,481121E+23	1,427910E+23	2,909031E+23
-6	7,405634E+22	7,405871E+22	7,139594E+22	7,139607E+22	1,481150E+23	1,427920E+23	2,909071E+23
-5	7,405817E+22	7,405739E+22	7,139544E+22	7,139619E+22	1,481156E+23	1,427916E+23	2,909072E+23
-4	7,405557E+22	7,405616E+22	7,139547E+22	7,139567E+22	1,481117E+23	1,427911E+23	2,909029E+23
-3	7,405838E+22	7,405882E+22	7,139632E+22	7,139661E+22	1,481172E+23	1,427929E+23	2,909101E+23
-2	7,405880E+22	7,405691E+22	7,139618E+22	7,139568E+22	1,481157E+23	1,427919E+23	2,909076E+23
-1	7,405684E+22	7,405816E+22	7,139680E+22	7,139614E+22	1,481150E+23	1,427929E+23	2,909079E+23
1	7,405989E+22	7,406016E+22	7,139724E+22	7,139789E+22	1,481201E+23	1,427951E+23	2,909152E+23
2	7,405780E+22	7,405779E+22	7,139774E+22	7,139698E+22	1,481156E+23	1,427947E+23	2,909103E+23
3	7,405729E+22	7,406011E+22	7,139858E+22	7,139790E+22	1,481174E+23	1,427965E+23	2,909139E+23
4	7,406058E+22	7,405931E+22	7,139832E+22	7,139832E+22	1,481199E+23	1,427966E+23	2,909165E+23
5	7,405807E+22	7,405724E+22	7,139823E+22	7,139765E+22	1,481153E+23	1,427959E+23	2,909112E+23
6	7,405935E+22	7,406018E+22	7,139841E+22	7,139880E+22	1,481195E+23	1,427972E+23	2,909167E+23
7	7,406013E+22	7,405893E+22	7,139714E+22	7,139783E+22	1,481191E+23	1,427950E+23	2,909140E+23
8	7,405714E+22	7,405876E+22	7,139717E+22	7,139707E+22	1,481159E+23	1,427942E+23	2,909101E+23
9	7,405991E+22	7,406020E+22	7,139733E+22	7,139769E+22	1,481201E+23	1,427950E+23	2,909151E+23
10	7,405870E+22	7,405722E+22	7,139730E+22	7,139555E+22	1,481159E+23	1,427929E+23	2,909088E+23
11	7,405669E+22	7,405864E+22	7,139752E+22	7,139599E+22	1,481153E+23	1,427935E+23	2,909088E+23
12	7,405950E+22	7,405888E+22	7,139648E+22	7,139697E+22	1,481184E+23	1,427934E+23	2,909118E+23
13	7,405651E+22	7,405655E+22	7,139621E+22	7,139626E+22	1,481131E+23	1,427925E+23	2,909055E+23
14	7,405656E+22	7,405890E+22	7,139687E+22	7,139728E+22	1,481155E+23	1,427941E+23	2,909096E+23
15	7,405896E+22	7,405789E+22	7,139605E+22	7,139650E+22	1,481168E+23	1,427926E+23	2,909094E+23
16	7,405660E+22	7,405683E+22	7,139654E+22	7,139582E+22	1,481134E+23	1,427924E+23	2,909058E+23
17	7,405934E+22	7,405900E+22	7,139709E+22	7,139742E+22	1,481183E+23	1,427945E+23	2,909128E+23
18	7,405938E+22	7,405768E+22	7,139712E+22	7,139644E+22	1,481171E+23	1,427936E+23	2,909106E+23
19	7,405662E+22	7,405929E+22	7,139790E+22	7,139732E+22	1,481159E+23	1,427952E+23	2,909111E+23
20	7,405999E+22	7,406053E+22	7,139787E+22	7,139881E+22	1,481205E+23	1,427967E+23	2,909172E+23
21	7,405858E+22	7,405804E+22	7,139855E+22	7,139774E+22	1,481166E+23	1,427963E+23	2,909129E+23
22	7,405809E+22	7,405976E+22	7,139975E+22	7,139883E+22	1,481179E+23	1,427986E+23	2,909164E+23
23	7,406134E+22	7,405989E+22	7,139865E+22	7,139895E+22	1,481212E+23	1,427976E+23	2,909188E+23
24	7,405860E+22	7,405849E+22	7,139860E+22	7,139830E+22	1,481171E+23	1,427969E+23	2,909140E+23
25	7,405966E+22	7,406073E+22	7,139870E+22	7,139970E+22	1,481204E+23	1,427984E+23	2,909188E+23
26	7,406062E+22	7,405956E+22	7,139815E+22	7,139798E+22	1,481202E+23	1,427961E+23	2,909163E+23
27	7,405734E+22	7,405929E+22	7,139855E+22	7,139735E+22	1,481166E+23	1,427959E+23	2,909125E+23
28	7,406025E+22	7,406016E+22	7,139810E+22	7,139818E+22	1,481204E+23	1,427963E+23	2,909167E+23
29	7,405922E+22	7,405758E+22	7,139786E+22	7,139660E+22	1,481168E+23	1,427945E+23	2,909113E+23
30	7,405658E+22	7,405870E+22	7,139817E+22	7,139756E+22	1,481153E+23	1,427957E+23	2,909110E+23
31	7,405945E+22	7,405962E+22	7,139654E+22	7,139795E+22	1,481191E+23	1,427945E+23	2,909136E+23
32	7,405711E+22	7,405713E+22	7,139669E+22	7,139660E+22	1,481142E+23	1,427933E+23	2,909075E+23
33	7,405756E+22	7,405851E+22	7,139745E+22	7,139763E+22	1,481161E+23	1,427951E+23	2,909112E+23
34	7,406030E+22	7,405810E+22	7,139704E+22	7,139644E+22	1,481184E+23	1,427935E+23	2,909119E+23
35	7,405715E+22	7,405774E+22	7,139762E+22	7,139638E+22	1,481149E+23	1,427940E+23	2,909089E+23
36	7,405943E+22	7,405998E+22	7,139757E+22	7,139837E+22	1,481194E+23	1,427959E+23	2,909153E+23
37	7,405956E+22	7,405887E+22	7,139787E+22	7,139761E+22	1,481184E+23	1,427955E+23	2,909139E+23
38	7,405664E+22	7,405954E+22	7,139941E+22	7,139864E+22	1,481162E+23	1,427981E+23	2,909142E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
39	7,406042E+22	7,406099E+22	7,139885E+22	7,139952E+22	1,481214E+23	1,427984E+23	2,909198E+23
40	7,405956E+22	7,405841E+22	7,139958E+22	7,139845E+22	1,481180E+23	1,427980E+23	2,909160E+23
41	7,405899E+22	7,405966E+22	7,140023E+22	7,140010E+22	1,481187E+23	1,428003E+23	2,909190E+23
42	7,406206E+22	7,406061E+22	7,139907E+22	7,139973E+22	1,481227E+23	1,427988E+23	2,909215E+23
43	7,405870E+22	7,405961E+22	7,139925E+22	7,139902E+22	1,481183E+23	1,427983E+23	2,909166E+23
44	7,406002E+22	7,406115E+22	7,139909E+22	7,139995E+22	1,481212E+23	1,427990E+23	2,909202E+23
45	7,406139E+22	7,405993E+22	7,139892E+22	7,139814E+22	1,481213E+23	1,427971E+23	2,909184E+23
46	7,405779E+22	7,405916E+22	7,139981E+22	7,139808E+22	1,481169E+23	1,427979E+23	2,909148E+23
47	7,406034E+22	7,406073E+22	7,139845E+22	7,139880E+22	1,481211E+23	1,427972E+23	2,909183E+23
48	7,405926E+22	7,405846E+22	7,139833E+22	7,139750E+22	1,481177E+23	1,427958E+23	2,909135E+23
49	7,405675E+22	7,405874E+22	7,139852E+22	7,139870E+22	1,481155E+23	1,427972E+23	2,909127E+23
50	7,406015E+22	7,405971E+22	7,139739E+22	7,139823E+22	1,481199E+23	1,427956E+23	2,909155E+23
51	7,405782E+22	7,405756E+22	7,139780E+22	7,139686E+22	1,481154E+23	1,427947E+23	2,909100E+23
52	7,405850E+22	7,405865E+22	7,139793E+22	7,139801E+22	1,481172E+23	1,427959E+23	2,909131E+23
53	7,406109E+22	7,405901E+22	7,139758E+22	7,139730E+22	1,481201E+23	1,427949E+23	2,909150E+23
54	7,405712E+22	7,405857E+22	7,139860E+22	7,139790E+22	1,481157E+23	1,427965E+23	2,909122E+23
55	7,405914E+22	7,406112E+22	7,139822E+22	7,139933E+22	1,481203E+23	1,427975E+23	2,909178E+23
56	7,406000E+22	7,405957E+22	7,139908E+22	7,139835E+22	1,481196E+23	1,427974E+23	2,909170E+23
57	7,405754E+22	7,405904E+22	7,140045E+22	7,139958E+22	1,481166E+23	1,428000E+23	2,909166E+23
58	7,406167E+22	7,406097E+22	7,139986E+22	7,140006E+22	1,481226E+23	1,427999E+23	2,909226E+23
59	7,406026E+22	7,405926E+22	7,140028E+22	7,139934E+22	1,481195E+23	1,427996E+23	2,909191E+23
60	7,405942E+22	7,406050E+22	7,140020E+22	7,140101E+22	1,481199E+23	1,428012E+23	2,909211E+23
61	7,406262E+22	7,406177E+22	7,139952E+22	7,140040E+22	1,481244E+23	1,427999E+23	2,909243E+23
62	7,405896E+22	7,405995E+22	7,140052E+22	7,139965E+22	1,481189E+23	1,428002E+23	2,909191E+23
63	7,406022E+22	7,406167E+22	7,140003E+22	7,140001E+22	1,481219E+23	1,428000E+23	2,909219E+23
64	7,406201E+22	7,406030E+22	7,139992E+22	7,139857E+22	1,481223E+23	1,427985E+23	2,909208E+23
65	7,405800E+22	7,405882E+22	7,140031E+22	7,139935E+22	1,481168E+23	1,427997E+23	2,909165E+23
66	7,406050E+22	7,406109E+22	7,139884E+22	7,139973E+22	1,481216E+23	1,427986E+23	2,909202E+23
67	7,405933E+22	7,405902E+22	7,139881E+22	7,139829E+22	1,481183E+23	1,427971E+23	2,909154E+23
68	7,405742E+22	7,405868E+22	7,139863E+22	7,139902E+22	1,481161E+23	1,427977E+23	2,909138E+23
69	7,406140E+22	7,406001E+22	7,139788E+22	7,139833E+22	1,481214E+23	1,427962E+23	2,909176E+23
70	7,405858E+22	7,405788E+22	7,139881E+22	7,139751E+22	1,481165E+23	1,427963E+23	2,909128E+23
71	7,405863E+22	7,405998E+22	7,139840E+22	7,139854E+22	1,481186E+23	1,427969E+23	2,909156E+23
72	7,406119E+22	7,406050E+22	7,139844E+22	7,139827E+22	1,481217E+23	1,427967E+23	2,909184E+23
73	7,405716E+22	7,405888E+22	7,139973E+22	7,139930E+22	1,481160E+23	1,427990E+23	2,909151E+23
74	7,405967E+22	7,406133E+22	7,139967E+22	7,140003E+22	1,481210E+23	1,427997E+23	2,909207E+23
75	7,406069E+22	7,405981E+22	7,140055E+22	7,139920E+22	1,481205E+23	1,427998E+23	2,909203E+23
76	7,405866E+22	7,405890E+22	7,140090E+22	7,140057E+22	1,481176E+23	1,428015E+23	2,909190E+23
77	7,406271E+22	7,406160E+22	7,140012E+22	7,140113E+22	1,481243E+23	1,428013E+23	2,909256E+23
78	7,406060E+22	7,406014E+22	7,140082E+22	7,140064E+22	1,481207E+23	1,428015E+23	2,909222E+23
79	7,405957E+22	7,406165E+22	7,140042E+22	7,140125E+22	1,481212E+23	1,428017E+23	2,909229E+23
80	7,406322E+22	7,406251E+22	7,140047E+22	7,140044E+22	1,481257E+23	1,428009E+23	2,909266E+23
81	7,405960E+22	7,405968E+22	7,140159E+22	7,140013E+22	1,481193E+23	1,428017E+23	2,909210E+23
82	7,406076E+22	7,406173E+22	7,140105E+22	7,140033E+22	1,481225E+23	1,428014E+23	2,909239E+23
83	7,406196E+22	7,406099E+22	7,140071E+22	7,139953E+22	1,481229E+23	1,428002E+23	2,909232E+23
84	7,405808E+22	7,405911E+22	7,140020E+22	7,140043E+22	1,481172E+23	1,428006E+23	2,909178E+23
85	7,406098E+22	7,406153E+22	7,139913E+22	7,140047E+22	1,481225E+23	1,427996E+23	2,909221E+23
86	7,405982E+22	7,405919E+22	7,139968E+22	7,139900E+22	1,481190E+23	1,427987E+23	2,909177E+23
87	7,405803E+22	7,405926E+22	7,139911E+22	7,139903E+22	1,481173E+23	1,427981E+23	2,909154E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
88	7,406230E+22	7,406082E+22	7,139872E+22	7,139876E+22	1,481231E+23	1,427975E+23	2,909206E+23
89	7,405889E+22	7,405830E+22	7,139955E+22	7,139877E+22	1,481172E+23	1,427983E+23	2,909155E+23
90	7,405865E+22	7,406087E+22	7,139934E+22	7,139946E+22	1,481195E+23	1,427988E+23	2,909183E+23
91	7,406119E+22	7,406126E+22	7,139970E+22	7,139922E+22	1,481225E+23	1,427989E+23	2,909214E+23
92	7,405786E+22	7,405862E+22	7,140047E+22	7,140009E+22	1,481165E+23	1,428006E+23	2,909170E+23
93	7,406103E+22	7,406131E+22	7,140054E+22	7,140070E+22	1,481223E+23	1,428012E+23	2,909236E+23
94	7,406163E+22	7,405998E+22	7,140136E+22	7,140033E+22	1,481216E+23	1,428017E+23	2,909233E+23
95	7,405907E+22	7,406015E+22	7,140093E+22	7,140127E+22	1,481192E+23	1,428022E+23	2,909214E+23
96	7,406325E+22	7,406308E+22	7,140056E+22	7,140186E+22	1,481263E+23	1,428024E+23	2,909288E+23
97	7,406087E+22	7,406063E+22	7,140173E+22	7,140144E+22	1,481215E+23	1,428032E+23	2,909247E+23
98	7,406006E+22	7,406218E+22	7,140180E+22	7,140133E+22	1,481222E+23	1,428031E+23	2,909254E+23
99	7,406363E+22	7,406291E+22	7,140194E+22	7,140086E+22	1,481265E+23	1,428028E+23	2,909293E+23
100	7,406010E+22	7,405948E+22	7,140212E+22	7,140109E+22	1,481196E+23	1,428032E+23	2,909228E+23
101	7,406110E+22	7,406211E+22	7,140134E+22	7,140152E+22	1,481232E+23	1,428029E+23	2,909261E+23
102	7,406180E+22	7,406139E+22	7,140108E+22	7,140099E+22	1,481232E+23	1,428021E+23	2,909253E+23
103	7,405820E+22	7,405973E+22	7,140015E+22	7,140077E+22	1,481179E+23	1,428009E+23	2,909189E+23
104	7,406198E+22	7,406191E+22	7,139966E+22	7,140052E+22	1,481239E+23	1,428002E+23	2,909241E+23
105	7,406079E+22	7,405906E+22	7,140043E+22	7,139935E+22	1,481199E+23	1,427998E+23	2,909196E+23
106	7,405881E+22	7,405990E+22	7,139999E+22	7,139914E+22	1,481187E+23	1,427991E+23	2,909178E+23
107	7,406227E+22	7,406208E+22	7,139978E+22	7,139953E+22	1,481243E+23	1,427993E+23	2,909237E+23
108	7,405896E+22	7,405892E+22	7,140015E+22	7,139995E+22	1,481179E+23	1,428001E+23	2,909180E+23
109	7,405899E+22	7,406122E+22	7,140042E+22	7,140042E+22	1,481202E+23	1,428008E+23	2,909211E+23
110	7,406154E+22	7,406130E+22	7,140109E+22	7,140046E+22	1,481228E+23	1,428016E+23	2,909244E+23
111	7,405864E+22	7,405889E+22	7,140097E+22	7,140065E+22	1,481175E+23	1,428016E+23	2,909192E+23
112	7,406215E+22	7,406182E+22	7,140105E+22	7,140164E+22	1,481240E+23	1,428027E+23	2,909267E+23
113	7,406219E+22	7,406061E+22	7,140169E+22	7,140172E+22	1,481228E+23	1,428034E+23	2,909262E+23
114	7,405950E+22	7,406128E+22	7,140149E+22	7,140183E+22	1,481208E+23	1,428033E+23	2,909241E+23
115	7,406350E+22	7,406409E+22	7,140180E+22	7,140220E+22	1,481276E+23	1,428040E+23	2,909316E+23
116	7,406160E+22	7,406066E+22	7,140259E+22	7,140178E+22	1,481223E+23	1,428044E+23	2,909266E+23
117	7,406089E+22	7,406225E+22	7,140290E+22	7,140175E+22	1,481231E+23	1,428046E+23	2,909278E+23
118	7,406375E+22	7,406319E+22	7,140288E+22	7,140211E+22	1,481269E+23	1,428050E+23	2,909319E+23
119	7,405996E+22	7,406031E+22	7,140210E+22	7,140198E+22	1,481203E+23	1,428041E+23	2,909243E+23
120	7,406143E+22	7,406283E+22	7,140162E+22	7,140248E+22	1,481243E+23	1,428041E+23	2,909284E+23
121	7,406218E+22	7,406137E+22	7,140168E+22	7,140182E+22	1,481236E+23	1,428035E+23	2,909270E+23
122	7,405904E+22	7,406004E+22	7,140103E+22	7,140066E+22	1,481191E+23	1,428017E+23	2,909208E+23
123	7,406276E+22	7,406240E+22	7,140082E+22	7,140062E+22	1,481252E+23	1,428014E+23	2,909266E+23
124	7,406145E+22	7,405926E+22	7,140089E+22	7,140007E+22	1,481207E+23	1,428010E+23	2,909217E+23
125	7,405910E+22	7,406072E+22	7,140065E+22	7,140015E+22	1,481198E+23	1,428008E+23	2,909206E+23
126	7,406192E+22	7,406273E+22	7,140063E+22	7,140092E+22	1,481246E+23	1,428016E+23	2,909262E+23
127	7,405892E+22	7,405941E+22	7,140068E+22	7,140056E+22	1,481183E+23	1,428012E+23	2,909196E+23
128	7,405998E+22	7,406135E+22	7,140127E+22	7,140108E+22	1,481213E+23	1,428023E+23	2,909237E+23
129	7,406247E+22	7,406102E+22	7,140187E+22	7,140147E+22	1,481235E+23	1,428033E+23	2,909268E+23
130	7,405959E+22	7,405968E+22	7,140155E+22	7,140122E+22	1,481193E+23	1,428028E+23	2,909220E+23
131	7,406259E+22	7,406322E+22	7,140177E+22	7,140244E+22	1,481258E+23	1,428042E+23	2,909300E+23
132	7,406265E+22	7,406148E+22	7,140218E+22	7,140257E+22	1,481241E+23	1,428048E+23	2,909289E+23
133	7,406014E+22	7,406202E+22	7,140276E+22	7,140228E+22	1,481222E+23	1,428050E+23	2,909272E+23
134	7,406371E+22	7,406444E+22	7,140341E+22	7,140303E+22	1,481282E+23	1,428064E+23	2,909346E+23
135	7,406197E+22	7,406101E+22	7,140347E+22	7,140235E+22	1,481230E+23	1,428058E+23	2,909288E+23
136	7,406149E+22	7,406259E+22	7,140353E+22	7,140295E+22	1,481241E+23	1,428065E+23	2,909306E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
137	7,406374E+22	7,406339E+22	7,140319E+22	7,140373E+22	1,481271E+23	1,428069E+23	2,909341E+23
138	7,406032E+22	7,406090E+22	7,140233E+22	7,140257E+22	1,481212E+23	1,428049E+23	2,909261E+23
139	7,406198E+22	7,406323E+22	7,140239E+22	7,140263E+22	1,481252E+23	1,428050E+23	2,909302E+23
140	7,406330E+22	7,406124E+22	7,140207E+22	7,140188E+22	1,481245E+23	1,428040E+23	2,909285E+23
141	7,406016E+22	7,406024E+22	7,140179E+22	7,140066E+22	1,481204E+23	1,428025E+23	2,909229E+23
142	7,406272E+22	7,406316E+22	7,140170E+22	7,140150E+22	1,481259E+23	1,428032E+23	2,909291E+23
143	7,406112E+22	7,406046E+22	7,140113E+22	7,140079E+22	1,481216E+23	1,428019E+23	2,909235E+23
144	7,405911E+22	7,406144E+22	7,140138E+22	7,140124E+22	1,481206E+23	1,428026E+23	2,909232E+23
145	7,406191E+22	7,406271E+22	7,140173E+22	7,140216E+22	1,481246E+23	1,428039E+23	2,909285E+23
146	7,405974E+22	7,405953E+22	7,140169E+22	7,140103E+22	1,481193E+23	1,428027E+23	2,909220E+23
147	7,406096E+22	7,406159E+22	7,140239E+22	7,140175E+22	1,481225E+23	1,428041E+23	2,909267E+23
148	7,406346E+22	7,406131E+22	7,140210E+22	7,140257E+22	1,481248E+23	1,428047E+23	2,909294E+23
149	7,406033E+22	7,406067E+22	7,140207E+22	7,140211E+22	1,481210E+23	1,428042E+23	2,909252E+23
150	7,406262E+22	7,406425E+22	7,140274E+22	7,140347E+22	1,481269E+23	1,428062E+23	2,909331E+23
151	7,406297E+22	7,406226E+22	7,140297E+22	7,140276E+22	1,481252E+23	1,428057E+23	2,909310E+23
152	7,406111E+22	7,406235E+22	7,140393E+22	7,140282E+22	1,481235E+23	1,428068E+23	2,909302E+23
153	7,406415E+22	7,406437E+22	7,140451E+22	7,140413E+22	1,481285E+23	1,428086E+23	2,909372E+23
154	7,406237E+22	7,406168E+22	7,140413E+22	7,140320E+22	1,481241E+23	1,428073E+23	2,909314E+23
155	7,406167E+22	7,406342E+22	7,140421E+22	7,140396E+22	1,481251E+23	1,428082E+23	2,909333E+23
156	7,406418E+22	7,406352E+22	7,140338E+22	7,140462E+22	1,481277E+23	1,428080E+23	2,909357E+23
157	7,406122E+22	7,406118E+22	7,140310E+22	7,140278E+22	1,481224E+23	1,428059E+23	2,909283E+23
158	7,406253E+22	7,406348E+22	7,140328E+22	7,140299E+22	1,481260E+23	1,428063E+23	2,909323E+23
159	7,406372E+22	7,406176E+22	7,140243E+22	7,140197E+22	1,481255E+23	1,428044E+23	2,909299E+23
160	7,406061E+22	7,406106E+22	7,140225E+22	7,140159E+22	1,481217E+23	1,428038E+23	2,909255E+23
161	7,406222E+22	7,406369E+22	7,140229E+22	7,140290E+22	1,481259E+23	1,428052E+23	2,909311E+23
162	7,406110E+22	7,406110E+22	7,140190E+22	7,140146E+22	1,481222E+23	1,428034E+23	2,909256E+23
163	7,405960E+22	7,406154E+22	7,140259E+22	7,140170E+22	1,481211E+23	1,428043E+23	2,909254E+23
164	7,406300E+22	7,406221E+22	7,140235E+22	7,140277E+22	1,481252E+23	1,428051E+23	2,909303E+23
165	7,406109E+22	7,405971E+22	7,140243E+22	7,140153E+22	1,481208E+23	1,428040E+23	2,909248E+23
166	7,406138E+22	7,406251E+22	7,140300E+22	7,140288E+22	1,481239E+23	1,428059E+23	2,909298E+23
167	7,406365E+22	7,406272E+22	7,140236E+22	7,140324E+22	1,481264E+23	1,428056E+23	2,909320E+23
168	7,406092E+22	7,406178E+22	7,140300E+22	7,140299E+22	1,481227E+23	1,428060E+23	2,909287E+23
169	7,406274E+22	7,406466E+22	7,140425E+22	7,140441E+22	1,481274E+23	1,428087E+23	2,909361E+23
170	7,406370E+22	7,406273E+22	7,140439E+22	7,140324E+22	1,481264E+23	1,428076E+23	2,909341E+23
171	7,406174E+22	7,406260E+22	7,140533E+22	7,140375E+22	1,481243E+23	1,428091E+23	2,909334E+23
172	7,406463E+22	7,406450E+22	7,140481E+22	7,140560E+22	1,481291E+23	1,428104E+23	2,909395E+23
173	7,406294E+22	7,406215E+22	7,140439E+22	7,140424E+22	1,481251E+23	1,428086E+23	2,909337E+23
174	7,406177E+22	7,406387E+22	7,140467E+22	7,140486E+22	1,481256E+23	1,428095E+23	2,909352E+23
175	7,406479E+22	7,406389E+22	7,140353E+22	7,140445E+22	1,481287E+23	1,428080E+23	2,909367E+23
176	7,406238E+22	7,406146E+22	7,140359E+22	7,140283E+22	1,481238E+23	1,428064E+23	2,909302E+23
177	7,406280E+22	7,406380E+22	7,140404E+22	7,140356E+22	1,481266E+23	1,428076E+23	2,909342E+23
178	7,406385E+22	7,406284E+22	7,140298E+22	7,140239E+22	1,481267E+23	1,428054E+23	2,909321E+23
179	7,406046E+22	7,406194E+22	7,140327E+22	7,140240E+22	1,481224E+23	1,428057E+23	2,909281E+23
180	7,406227E+22	7,406373E+22	7,140299E+22	7,140388E+22	1,481260E+23	1,428069E+23	2,909329E+23
181	7,406184E+22	7,406099E+22	7,140307E+22	7,140203E+22	1,481228E+23	1,428051E+23	2,909279E+23
182	7,406024E+22	7,406148E+22	7,140364E+22	7,140262E+22	1,481217E+23	1,428063E+23	2,909280E+23
183	7,406382E+22	7,406250E+22	7,140262E+22	7,140338E+22	1,481263E+23	1,428060E+23	2,909323E+23
184	7,406204E+22	7,406072E+22	7,140262E+22	7,140270E+22	1,481228E+23	1,428053E+23	2,909281E+23
185	7,406144E+22	7,406351E+22	7,140355E+22	7,140414E+22	1,481250E+23	1,428077E+23	2,909326E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
186	7,406405E+22	7,406387E+22	7,140330E+22	7,140365E+22	1,481279E+23	1,428069E+23	2,909349E+23
187	7,406167E+22	7,406237E+22	7,140466E+22	7,140336E+22	1,481240E+23	1,428080E+23	2,909321E+23
188	7,406354E+22	7,406445E+22	7,140530E+22	7,140516E+22	1,481280E+23	1,428105E+23	2,909384E+23
189	7,406457E+22	7,406298E+22	7,140547E+22	7,140413E+22	1,481275E+23	1,428096E+23	2,909371E+23
190	7,406183E+22	7,406328E+22	7,140588E+22	7,140519E+22	1,481251E+23	1,428111E+23	2,909362E+23
191	7,406469E+22	7,406519E+22	7,140479E+22	7,140638E+22	1,481299E+23	1,428112E+23	2,909410E+23
192	7,406371E+22	7,406284E+22	7,140473E+22	7,140495E+22	1,481265E+23	1,428097E+23	2,909362E+23
193	7,406221E+22	7,406405E+22	7,140546E+22	7,140532E+22	1,481263E+23	1,428108E+23	2,909370E+23
194	7,406562E+22	7,406441E+22	7,140438E+22	7,140433E+22	1,481300E+23	1,428087E+23	2,909387E+23
195	7,406300E+22	7,406201E+22	7,140469E+22	7,140319E+22	1,481250E+23	1,428079E+23	2,909329E+23
196	7,406277E+22	7,406416E+22	7,140441E+22	7,140457E+22	1,481269E+23	1,428090E+23	2,909359E+23
197	7,406393E+22	7,406336E+22	7,140372E+22	7,140326E+22	1,481273E+23	1,428070E+23	2,909343E+23
198	7,406035E+22	7,406211E+22	7,140416E+22	7,140340E+22	1,481225E+23	1,428076E+23	2,909300E+23
199	7,406281E+22	7,406356E+22	7,140346E+22	7,140416E+22	1,481264E+23	1,428076E+23	2,909340E+23
200	7,406317E+22	7,406109E+22	7,140348E+22	7,140271E+22	1,481243E+23	1,428062E+23	2,909305E+23
201	7,406078E+22	7,406193E+22	7,140413E+22	7,140368E+22	1,481227E+23	1,428078E+23	2,909305E+23
202	7,406436E+22	7,406390E+22	7,140298E+22	7,140402E+22	1,481283E+23	1,428070E+23	2,909353E+23
203	7,406241E+22	7,406201E+22	7,140370E+22	7,140340E+22	1,481244E+23	1,428071E+23	2,909315E+23
204	7,406178E+22	7,406408E+22	7,140461E+22	7,140492E+22	1,481259E+23	1,428095E+23	2,909354E+23
205	7,406492E+22	7,406415E+22	7,140486E+22	7,140411E+22	1,481291E+23	1,428090E+23	2,909380E+23
206	7,406209E+22	7,406249E+22	7,140612E+22	7,140447E+22	1,481246E+23	1,428106E+23	2,909352E+23
207	7,406395E+22	7,406470E+22	7,140579E+22	7,140615E+22	1,481286E+23	1,428119E+23	2,909406E+23
208	7,406517E+22	7,406366E+22	7,140555E+22	7,140567E+22	1,481288E+23	1,428112E+23	2,909401E+23
209	7,406187E+22	7,406381E+22	7,140618E+22	7,140652E+22	1,481257E+23	1,428127E+23	2,909384E+23
210	7,406541E+22	7,406582E+22	7,140523E+22	7,140647E+22	1,481312E+23	1,428117E+23	2,909429E+23
211	7,406479E+22	7,406323E+22	7,140579E+22	7,140475E+22	1,481280E+23	1,428105E+23	2,909386E+23
212	7,406311E+22	7,406409E+22	7,140607E+22	7,140546E+22	1,481272E+23	1,428115E+23	2,909387E+23
213	7,406626E+22	7,406497E+22	7,140527E+22	7,140466E+22	1,481312E+23	1,428099E+23	2,909412E+23
214	7,406263E+22	7,406294E+22	7,140550E+22	7,140435E+22	1,481256E+23	1,428099E+23	2,909354E+23
215	7,406237E+22	7,406469E+22	7,140482E+22	7,140536E+22	1,481271E+23	1,428102E+23	2,909372E+23
216	7,406430E+22	7,406369E+22	7,140436E+22	7,140431E+22	1,481280E+23	1,428087E+23	2,909367E+23
217	7,406070E+22	7,406197E+22	7,140500E+22	7,140437E+22	1,481227E+23	1,428094E+23	2,909320E+23
218	7,406378E+22	7,406378E+22	7,140408E+22	7,140457E+22	1,481276E+23	1,428087E+23	2,909362E+23
219	7,406417E+22	7,406183E+22	7,140421E+22	7,140345E+22	1,481260E+23	1,428077E+23	2,909337E+23
220	7,406124E+22	7,406264E+22	7,140423E+22	7,140470E+22	1,481239E+23	1,428089E+23	2,909328E+23
221	7,406484E+22	7,406481E+22	7,140385E+22	7,140462E+22	1,481297E+23	1,428085E+23	2,909381E+23
222	7,406264E+22	7,406268E+22	7,140499E+22	7,140408E+22	1,481253E+23	1,428091E+23	2,909344E+23
223	7,406226E+22	7,406412E+22	7,140560E+22	7,140516E+22	1,481264E+23	1,428108E+23	2,909371E+23
224	7,406588E+22	7,406449E+22	7,140572E+22	7,140512E+22	1,481304E+23	1,428108E+23	2,909412E+23
225	7,406233E+22	7,406289E+22	7,140683E+22	7,140595E+22	1,481252E+23	1,428128E+23	2,909380E+23
226	7,406431E+22	7,406567E+22	7,140619E+22	7,140710E+22	1,481300E+23	1,428133E+23	2,909433E+23
227	7,406576E+22	7,406458E+22	7,140638E+22	7,140643E+22	1,481303E+23	1,428128E+23	2,909431E+23
228	7,406253E+22	7,406408E+22	7,140678E+22	7,140706E+22	1,481266E+23	1,428138E+23	2,909405E+23
229	7,406652E+22	7,406606E+22	7,140642E+22	7,140653E+22	1,481326E+23	1,428129E+23	2,909455E+23
230	7,406529E+22	7,406366E+22	7,140693E+22	7,140533E+22	1,481290E+23	1,428123E+23	2,909412E+23
231	7,406321E+22	7,406459E+22	7,140650E+22	7,140607E+22	1,481278E+23	1,428126E+23	2,909404E+23
232	7,406631E+22	7,406588E+22	7,140546E+22	7,140599E+22	1,481322E+23	1,428115E+23	2,909436E+23
233	7,406216E+22	7,406330E+22	7,140611E+22	7,140571E+22	1,481255E+23	1,428118E+23	2,909373E+23
234	7,406276E+22	7,406485E+22	7,140549E+22	7,140574E+22	1,481276E+23	1,428112E+23	2,909388E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
235	7,406530E+22	7,406359E+22	7,140531E+22	7,140457E+22	1,481289E+23	1,428099E+23	2,909388E+23
236	7,406170E+22	7,406187E+22	7,140528E+22	7,140493E+22	1,481236E+23	1,428102E+23	2,909338E+23
237	7,406478E+22	7,406435E+22	7,140455E+22	7,140500E+22	1,481291E+23	1,428096E+23	2,909387E+23
238	7,406419E+22	7,406301E+22	7,140483E+22	7,140433E+22	1,481272E+23	1,428092E+23	2,909364E+23
239	7,406128E+22	7,406351E+22	7,140488E+22	7,140512E+22	1,481248E+23	1,428100E+23	2,909348E+23
240	7,406536E+22	7,406550E+22	7,140490E+22	7,140539E+22	1,481309E+23	1,428103E+23	2,909412E+23
241	7,406290E+22	7,406283E+22	7,140649E+22	7,140518E+22	1,481257E+23	1,428117E+23	2,909374E+23
242	7,406295E+22	7,406439E+22	7,140669E+22	7,140598E+22	1,481273E+23	1,428127E+23	2,909400E+23
243	7,406651E+22	7,406510E+22	7,140663E+22	7,140640E+22	1,481316E+23	1,428130E+23	2,909446E+23
244	7,406272E+22	7,406344E+22	7,140691E+22	7,140740E+22	1,481262E+23	1,428143E+23	2,909405E+23
245	7,406513E+22	7,406616E+22	7,140684E+22	7,140777E+22	1,481313E+23	1,428146E+23	2,909459E+23
246	7,406639E+22	7,406516E+22	7,140734E+22	7,140687E+22	1,481315E+23	1,428142E+23	2,909458E+23
247	7,406342E+22	7,406430E+22	7,140740E+22	7,140696E+22	1,481277E+23	1,428144E+23	2,909421E+23
248	7,406737E+22	7,406676E+22	7,140702E+22	7,140715E+22	1,481341E+23	1,428142E+23	2,909483E+23
249	7,406513E+22	7,406448E+22	7,140769E+22	7,140651E+22	1,481296E+23	1,428142E+23	2,909438E+23
250	7,406296E+22	7,406552E+22	7,140710E+22	7,140687E+22	1,481285E+23	1,428140E+23	2,909424E+23
251	7,406636E+22	7,406650E+22	7,140650E+22	7,140681E+22	1,481329E+23	1,428133E+23	2,909462E+23
252	7,406260E+22	7,406301E+22	7,140668E+22	7,140642E+22	1,481256E+23	1,428131E+23	2,909387E+23
253	7,406386E+22	7,406443E+22	7,140644E+22	7,140602E+22	1,481283E+23	1,428125E+23	2,909407E+23
254	7,406601E+22	7,406381E+22	7,140601E+22	7,140524E+22	1,481298E+23	1,428113E+23	2,909411E+23
255	7,406214E+22	7,406238E+22	7,140525E+22	7,140546E+22	1,481245E+23	1,428107E+23	2,909352E+23
256	7,406512E+22	7,406556E+22	7,140465E+22	7,140601E+22	1,481307E+23	1,428107E+23	2,909413E+23
257	7,406408E+22	7,406380E+22	7,140571E+22	7,140526E+22	1,481279E+23	1,428110E+23	2,909389E+23
258	7,406172E+22	7,406400E+22	7,140608E+22	7,140533E+22	1,481257E+23	1,428114E+23	2,909371E+23
259	7,406613E+22	7,406583E+22	7,140638E+22	7,140591E+22	1,481320E+23	1,428123E+23	2,909443E+23
260	7,406353E+22	7,406289E+22	7,140726E+22	7,140636E+22	1,481264E+23	1,428136E+23	2,909400E+23
261	7,406370E+22	7,406485E+22	7,140751E+22	7,140716E+22	1,481286E+23	1,428147E+23	2,909432E+23
262	7,406666E+22	7,406606E+22	7,140735E+22	7,140773E+22	1,481327E+23	1,428151E+23	2,909478E+23
263	7,406322E+22	7,406404E+22	7,140735E+22	7,140800E+22	1,481273E+23	1,428153E+23	2,909426E+23
264	7,406615E+22	7,406687E+22	7,140750E+22	7,140838E+22	1,481330E+23	1,428159E+23	2,909489E+23
265	7,406693E+22	7,406559E+22	7,140853E+22	7,140758E+22	1,481325E+23	1,428161E+23	2,909486E+23
266	7,406406E+22	7,406495E+22	7,140835E+22	7,140739E+22	1,481290E+23	1,428157E+23	2,909448E+23
267	7,406753E+22	7,406759E+22	7,140789E+22	7,140805E+22	1,481351E+23	1,428159E+23	2,909511E+23
268	7,406493E+22	7,406489E+22	7,140803E+22	7,140778E+22	1,481298E+23	1,428158E+23	2,909456E+23
269	7,406342E+22	7,406539E+22	7,140788E+22	7,140741E+22	1,481288E+23	1,428153E+23	2,909441E+23
270	7,406671E+22	7,406632E+22	7,140736E+22	7,140722E+22	1,481330E+23	1,428146E+23	2,909476E+23
271	7,406353E+22	7,406272E+22	7,140688E+22	7,140646E+22	1,481263E+23	1,428133E+23	2,909396E+23
272	7,406490E+22	7,406491E+22	7,140642E+22	7,140663E+22	1,481298E+23	1,428131E+23	2,909429E+23
273	7,406606E+22	7,406480E+22	7,140641E+22	7,140622E+22	1,481309E+23	1,428126E+23	2,909435E+23
274	7,406223E+22	7,406364E+22	7,140583E+22	7,140591E+22	1,481259E+23	1,428117E+23	2,909376E+23
275	7,406524E+22	7,406656E+22	7,140598E+22	7,140651E+22	1,481318E+23	1,428125E+23	2,909443E+23
276	7,406440E+22	7,406401E+22	7,140693E+22	7,140610E+22	1,481284E+23	1,428130E+23	2,909414E+23
277	7,406266E+22	7,406379E+22	7,140762E+22	7,140608E+22	1,481265E+23	1,428137E+23	2,909402E+23
278	7,406651E+22	7,406616E+22	7,140756E+22	7,140726E+22	1,481327E+23	1,428148E+23	2,909475E+23
279	7,406400E+22	7,406335E+22	7,140739E+22	7,140764E+22	1,481274E+23	1,428150E+23	2,909424E+23
280	7,406435E+22	7,406578E+22	7,140756E+22	7,140858E+22	1,481301E+23	1,428161E+23	2,909463E+23
281	7,406708E+22	7,406670E+22	7,140814E+22	7,140869E+22	1,481338E+23	1,428168E+23	2,909506E+23
282	7,406424E+22	7,406456E+22	7,140828E+22	7,140791E+22	1,481288E+23	1,428162E+23	2,909450E+23
283	7,406719E+22	7,406754E+22	7,140875E+22	7,140849E+22	1,481347E+23	1,428172E+23	2,909520E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
284	7,406747E+22	7,406606E+22	7,140918E+22	7,140832E+22	1,481335E+23	1,428175E+23	2,909510E+23
285	7,406436E+22	7,406549E+22	7,140927E+22	7,140820E+22	1,481298E+23	1,428175E+23	2,909473E+23
286	7,406710E+22	7,406836E+22	7,140881E+22	7,140909E+22	1,481355E+23	1,428179E+23	2,909534E+23
287	7,406505E+22	7,406485E+22	7,140850E+22	7,140837E+22	1,481299E+23	1,428169E+23	2,909468E+23
288	7,406422E+22	7,406539E+22	7,140833E+22	7,140813E+22	1,481296E+23	1,428165E+23	2,909461E+23
289	7,406730E+22	7,406623E+22	7,140807E+22	7,140799E+22	1,481335E+23	1,428161E+23	2,909496E+23
290	7,406426E+22	7,406326E+22	7,140719E+22	7,140679E+22	1,481275E+23	1,428140E+23	2,909415E+23
291	7,406526E+22	7,406613E+22	7,140678E+22	7,140730E+22	1,481314E+23	1,428141E+23	2,909455E+23
292	7,406603E+22	7,406564E+22	7,140676E+22	7,140712E+22	1,481317E+23	1,428139E+23	2,909455E+23
293	7,406279E+22	7,406392E+22	7,140711E+22	7,140630E+22	1,481267E+23	1,428134E+23	2,909401E+23
294	7,406548E+22	7,406676E+22	7,140751E+22	7,140700E+22	1,481322E+23	1,428145E+23	2,909467E+23
295	7,406512E+22	7,406387E+22	7,140775E+22	7,140676E+22	1,481290E+23	1,428145E+23	2,909435E+23
296	7,406353E+22	7,406425E+22	7,140802E+22	7,140743E+22	1,481278E+23	1,428154E+23	2,909432E+23
297	7,406661E+22	7,406690E+22	7,140817E+22	7,140885E+22	1,481335E+23	1,428170E+23	2,909505E+23
298	7,406455E+22	7,406440E+22	7,140792E+22	7,140837E+22	1,481290E+23	1,428163E+23	2,909452E+23
299	7,406519E+22	7,406668E+22	7,140851E+22	7,140903E+22	1,481319E+23	1,428175E+23	2,909494E+23
300	7,406789E+22	7,406706E+22	7,140913E+22	7,140922E+22	1,481350E+23	1,428183E+23	2,909533E+23
301	7,406547E+22	7,406474E+22	7,140967E+22	7,140823E+22	1,481302E+23	1,428179E+23	2,909481E+23
302	7,406727E+22	7,406820E+22	7,140993E+22	7,140932E+22	1,481355E+23	1,428193E+23	2,909547E+23
303	7,406744E+22	7,406667E+22	7,140946E+22	7,140941E+22	1,481341E+23	1,428189E+23	2,909530E+23
304	7,406455E+22	7,406605E+22	7,140947E+22	7,140946E+22	1,481306E+23	1,428189E+23	2,909495E+23
305	7,406711E+22	7,406839E+22	7,140961E+22	7,141001E+22	1,481355E+23	1,428196E+23	2,909551E+23
306	7,406591E+22	7,406487E+22	7,140901E+22	7,140841E+22	1,481308E+23	1,428174E+23	2,909482E+23
307	7,406526E+22	7,406576E+22	7,140881E+22	7,140836E+22	1,481310E+23	1,428172E+23	2,909482E+23
308	7,406782E+22	7,406677E+22	7,140824E+22	7,140870E+22	1,481346E+23	1,428169E+23	2,909515E+23
309	7,406479E+22	7,406408E+22	7,140784E+22	7,140728E+22	1,481289E+23	1,428151E+23	2,909440E+23
310	7,406496E+22	7,406721E+22	7,140791E+22	7,140783E+22	1,481322E+23	1,428157E+23	2,909479E+23
311	7,406627E+22	7,406596E+22	7,140764E+22	7,140756E+22	1,481322E+23	1,428152E+23	2,909474E+23
312	7,406350E+22	7,406404E+22	7,140817E+22	7,140721E+22	1,481275E+23	1,428154E+23	2,909429E+23
313	7,406583E+22	7,406671E+22	7,140879E+22	7,140830E+22	1,481325E+23	1,428171E+23	2,909496E+23
314	7,406570E+22	7,406426E+22	7,140827E+22	7,140780E+22	1,481300E+23	1,428161E+23	2,909460E+23
315	7,406407E+22	7,406528E+22	7,140831E+22	7,140870E+22	1,481294E+23	1,428170E+23	2,909464E+23
316	7,406712E+22	7,406747E+22	7,140841E+22	7,140990E+22	1,481346E+23	1,428183E+23	2,909529E+23
317	7,406573E+22	7,406468E+22	7,140896E+22	7,140852E+22	1,481304E+23	1,428175E+23	2,909479E+23
318	7,406594E+22	7,406732E+22	7,140986E+22	7,140908E+22	1,481333E+23	1,428189E+23	2,909522E+23
319	7,406874E+22	7,406743E+22	7,140985E+22	7,140959E+22	1,481362E+23	1,428194E+23	2,909556E+23
320	7,406599E+22	7,406563E+22	7,141029E+22	7,140940E+22	1,481316E+23	1,428197E+23	2,909513E+23
321	7,406679E+22	7,406905E+22	7,141083E+22	7,141080E+22	1,481358E+23	1,428216E+23	2,909575E+23
322	7,406739E+22	7,406732E+22	7,141015E+22	7,141021E+22	1,481347E+23	1,428204E+23	2,909551E+23
323	7,406508E+22	7,406646E+22	7,141024E+22	7,141012E+22	1,481315E+23	1,428204E+23	2,909519E+23
324	7,406785E+22	7,406812E+22	7,141022E+22	7,141066E+22	1,481360E+23	1,428209E+23	2,909568E+23
325	7,406721E+22	7,406477E+22	7,140980E+22	7,140870E+22	1,481320E+23	1,428185E+23	2,909505E+23
326	7,406558E+22	7,406655E+22	7,140939E+22	7,140889E+22	1,481321E+23	1,428183E+23	2,909504E+23
327	7,406797E+22	7,406757E+22	7,140825E+22	7,140938E+22	1,481355E+23	1,428176E+23	2,909532E+23
328	7,406514E+22	7,406485E+22	7,140831E+22	7,140806E+22	1,481300E+23	1,428164E+23	2,909464E+23
329	7,406487E+22	7,406735E+22	7,140922E+22	7,140850E+22	1,481322E+23	1,428177E+23	2,909499E+23
330	7,406688E+22	7,406608E+22	7,140867E+22	7,140784E+22	1,481330E+23	1,428165E+23	2,909495E+23
331	7,406437E+22	7,406438E+22	7,140884E+22	7,140802E+22	1,481287E+23	1,428169E+23	2,909456E+23
332	7,406617E+22	7,406703E+22	7,140913E+22	7,140965E+22	1,481332E+23	1,428188E+23	2,909520E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
333	7,406645E+22	7,406498E+22	7,140883E+22	7,140873E+22	1,481314E+23	1,428176E+23	2,909490E+23
334	7,406432E+22	7,406629E+22	7,140922E+22	7,140931E+22	1,481306E+23	1,428185E+23	2,909491E+23
335	7,406791E+22	7,406797E+22	7,140915E+22	7,141031E+22	1,481359E+23	1,428195E+23	2,909553E+23
336	7,406690E+22	7,406525E+22	7,140997E+22	7,140913E+22	1,481321E+23	1,428191E+23	2,909512E+23
337	7,406624E+22	7,406781E+22	7,141127E+22	7,141009E+22	1,481341E+23	1,428214E+23	2,909554E+23
338	7,406893E+22	7,406834E+22	7,141057E+22	7,141056E+22	1,481373E+23	1,428211E+23	2,909584E+23
339	7,406608E+22	7,406668E+22	7,141081E+22	7,141077E+22	1,481328E+23	1,428216E+23	2,909543E+23
340	7,406684E+22	7,406919E+22	7,141144E+22	7,141200E+22	1,481360E+23	1,428234E+23	2,909595E+23
341	7,406845E+22	7,406705E+22	7,141111E+22	7,141052E+22	1,481355E+23	1,428216E+23	2,909571E+23
342	7,406592E+22	7,406661E+22	7,141112E+22	7,141021E+22	1,481325E+23	1,428213E+23	2,909539E+23
343	7,406887E+22	7,406824E+22	7,141029E+22	7,141099E+22	1,481371E+23	1,428213E+23	2,909584E+23
344	7,406786E+22	7,406572E+22	7,140993E+22	7,140943E+22	1,481336E+23	1,428194E+23	2,909529E+23
345	7,406526E+22	7,406761E+22	7,141018E+22	7,140976E+22	1,481329E+23	1,428199E+23	2,909528E+23
346	7,406789E+22	7,406833E+22	7,140903E+22	7,140967E+22	1,481362E+23	1,428187E+23	2,909549E+23
347	7,406547E+22	7,406540E+22	7,140937E+22	7,140870E+22	1,481309E+23	1,428181E+23	2,909489E+23
348	7,406525E+22	7,406704E+22	7,141022E+22	7,140943E+22	1,481323E+23	1,428196E+23	2,909519E+23
349	7,406773E+22	7,406584E+22	7,140962E+22	7,140869E+22	1,481336E+23	1,428183E+23	2,909519E+23
350	7,406458E+22	7,406515E+22	7,140937E+22	7,140908E+22	1,481297E+23	1,428185E+23	2,909482E+23
351	7,406666E+22	7,406758E+22	7,140899E+22	7,141072E+22	1,481342E+23	1,428197E+23	2,909540E+23
352	7,406732E+22	7,406572E+22	7,140925E+22	7,140949E+22	1,481330E+23	1,428187E+23	2,909518E+23
353	7,406490E+22	7,406677E+22	7,141046E+22	7,140975E+22	1,481317E+23	1,428202E+23	2,909519E+23
354	7,406876E+22	7,406854E+22	7,141019E+22	7,141038E+22	1,481373E+23	1,428206E+23	2,909579E+23
355	7,406764E+22	7,406627E+22	7,141091E+22	7,140998E+22	1,481339E+23	1,428209E+23	2,909548E+23
356	7,406621E+22	7,406848E+22	7,141211E+22	7,141151E+22	1,481347E+23	1,428236E+23	2,909583E+23
357	7,406922E+22	7,406894E+22	7,141161E+22	7,141164E+22	1,481382E+23	1,428232E+23	2,909614E+23
358	7,406621E+22	7,406727E+22	7,141193E+22	7,141153E+22	1,481335E+23	1,428235E+23	2,909569E+23
359	7,406766E+22	7,406897E+22	7,141202E+22	7,141263E+22	1,481366E+23	1,428246E+23	2,909613E+23
360	7,406977E+22	7,406712E+22	7,141170E+22	7,141114E+22	1,481369E+23	1,428228E+23	2,909597E+23
361	7,406641E+22	7,406692E+22	7,141183E+22	7,141099E+22	1,481333E+23	1,428228E+23	2,909562E+23
362	7,406909E+22	7,406926E+22	7,141042E+22	7,141152E+22	1,481383E+23	1,428219E+23	2,909603E+23
363	7,406799E+22	7,406701E+22	7,141009E+22	7,141018E+22	1,481350E+23	1,428203E+23	2,909553E+23
364	7,406508E+22	7,406782E+22	7,141098E+22	7,141043E+22	1,481329E+23	1,428214E+23	2,909543E+23
365	7,406850E+22	7,406824E+22	7,141025E+22	7,140982E+22	1,481367E+23	1,428201E+23	2,909568E+23
366	7,406590E+22	7,406551E+22	7,141049E+22	7,140907E+22	1,481314E+23	1,428196E+23	2,909510E+23
367	7,406589E+22	7,406695E+22	7,141048E+22	7,141040E+22	1,481328E+23	1,428209E+23	2,909537E+23
368	7,406837E+22	7,406653E+22	7,140981E+22	7,140991E+22	1,481349E+23	1,428197E+23	2,909546E+23
369	7,406462E+22	7,406601E+22	7,141006E+22	7,141015E+22	1,481306E+23	1,428202E+23	2,909508E+23
370	7,406716E+22	7,406844E+22	7,140965E+22	7,141103E+22	1,481356E+23	1,428207E+23	2,909563E+23
371	7,406824E+22	7,406667E+22	7,141023E+22	7,140998E+22	1,481349E+23	1,428202E+23	2,909551E+23
372	7,406557E+22	7,406697E+22	7,141185E+22	7,141058E+22	1,481325E+23	1,428224E+23	2,909550E+23
373	7,406951E+22	7,406895E+22	7,141154E+22	7,141123E+22	1,481385E+23	1,428228E+23	2,909612E+23
374	7,406760E+22	7,406735E+22	7,141198E+22	7,141123E+22	1,481350E+23	1,428232E+23	2,909582E+23
375	7,406644E+22	7,406881E+22	7,141248E+22	7,141291E+22	1,481353E+23	1,428254E+23	2,909606E+23
376	7,406993E+22	7,406912E+22	7,141231E+22	7,141260E+22	1,481391E+23	1,428249E+23	2,909640E+23
377	7,406693E+22	7,406731E+22	7,141292E+22	7,141214E+22	1,481342E+23	1,428251E+23	2,909593E+23
378	7,406872E+22	7,406914E+22	7,141234E+22	7,141270E+22	1,481379E+23	1,428250E+23	2,909629E+23
379	7,407055E+22	7,406819E+22	7,141181E+22	7,141176E+22	1,481387E+23	1,428236E+23	2,909623E+23
380	7,406642E+22	7,406780E+22	7,141221E+22	7,141184E+22	1,481342E+23	1,428240E+23	2,909583E+23
381	7,406913E+22	7,407000E+22	7,141129E+22	7,141188E+22	1,481391E+23	1,428232E+23	2,909623E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
382	7,406782E+22	7,406776E+22	7,141141E+22	7,141047E+22	1,481356E+23	1,428219E+23	2,909575E+23
383	7,406553E+22	7,406746E+22	7,141180E+22	7,141105E+22	1,481330E+23	1,428229E+23	2,909558E+23
384	7,406928E+22	7,406800E+22	7,141115E+22	7,141068E+22	1,481373E+23	1,428218E+23	2,909591E+23
385	7,406616E+22	7,406566E+22	7,141121E+22	7,141030E+22	1,481318E+23	1,428215E+23	2,909533E+23
386	7,406617E+22	7,406758E+22	7,141042E+22	7,141134E+22	1,481338E+23	1,428218E+23	2,909555E+23
387	7,406890E+22	7,406767E+22	7,140986E+22	7,141088E+22	1,481366E+23	1,428207E+23	2,909573E+23
388	7,406517E+22	7,406634E+22	7,141093E+22	7,141071E+22	1,481315E+23	1,428216E+23	2,909531E+23
389	7,406828E+22	7,406875E+22	7,141100E+22	7,141099E+22	1,481370E+23	1,428220E+23	2,909590E+23
390	7,406895E+22	7,406751E+22	7,141165E+22	7,141028E+22	1,481365E+23	1,428219E+23	2,909584E+23
391	7,406608E+22	7,406743E+22	7,141261E+22	7,141178E+22	1,481335E+23	1,428244E+23	2,909579E+23
392	7,406978E+22	7,406986E+22	7,141238E+22	7,141270E+22	1,481396E+23	1,428251E+23	2,909647E+23
393	7,406746E+22	7,406797E+22	7,141308E+22	7,141266E+22	1,481354E+23	1,428257E+23	2,909612E+23
394	7,406689E+22	7,406913E+22	7,141316E+22	7,141362E+22	1,481360E+23	1,428268E+23	2,909628E+23
395	7,407103E+22	7,406960E+22	7,141279E+22	7,141330E+22	1,481406E+23	1,428261E+23	2,909667E+23
396	7,406777E+22	7,406728E+22	7,141364E+22	7,141282E+22	1,481350E+23	1,428265E+23	2,909615E+23
397	7,406953E+22	7,406977E+22	7,141292E+22	7,141311E+22	1,481393E+23	1,428260E+23	2,909653E+23
398	7,407052E+22	7,406953E+22	7,141238E+22	7,141226E+22	1,481401E+23	1,428246E+23	2,909647E+23
399	7,406651E+22	7,406820E+22	7,141262E+22	7,141257E+22	1,481347E+23	1,428252E+23	2,909599E+23
400	7,406949E+22	7,407009E+22	7,141230E+22	7,141226E+22	1,481396E+23	1,428246E+23	2,909641E+23
401	7,406807E+22	7,406758E+22	7,141270E+22	7,141100E+22	1,481356E+23	1,428237E+23	2,909593E+23
402	7,406612E+22	7,406734E+22	7,141225E+22	7,141153E+22	1,481335E+23	1,428238E+23	2,909572E+23
403	7,406983E+22	7,406873E+22	7,141117E+22	7,141181E+22	1,481386E+23	1,428230E+23	2,909615E+23
404	7,406632E+22	7,406625E+22	7,141155E+22	7,141148E+22	1,481326E+23	1,428230E+23	2,909556E+23
405	7,406676E+22	7,406832E+22	7,141109E+22	7,141178E+22	1,481351E+23	1,428229E+23	2,909579E+23
406	7,406937E+22	7,406870E+22	7,141110E+22	7,141107E+22	1,481381E+23	1,428222E+23	2,909602E+23
407	7,406615E+22	7,406648E+22	7,141197E+22	7,141131E+22	1,481326E+23	1,428233E+23	2,909559E+23
408	7,406909E+22	7,406904E+22	7,141235E+22	7,141180E+22	1,481381E+23	1,428242E+23	2,909623E+23
409	7,406902E+22	7,406826E+22	7,141290E+22	7,141177E+22	1,481373E+23	1,428247E+23	2,909619E+23
410	7,406613E+22	7,406814E+22	7,141291E+22	7,141308E+22	1,481343E+23	1,428260E+23	2,909603E+23
411	7,407007E+22	7,407068E+22	7,141269E+22	7,141403E+22	1,481407E+23	1,428267E+23	2,909675E+23
412	7,406812E+22	7,406792E+22	7,141393E+22	7,141349E+22	1,481360E+23	1,428274E+23	2,909635E+23
413	7,406822E+22	7,406910E+22	7,141397E+22	7,141369E+22	1,481373E+23	1,428277E+23	2,909650E+23
414	7,407193E+22	7,407041E+22	7,141364E+22	7,141343E+22	1,481423E+23	1,428271E+23	2,909694E+23
415	7,406849E+22	7,406789E+22	7,141388E+22	7,141353E+22	1,481364E+23	1,428274E+23	2,909638E+23
416	7,406974E+22	7,407072E+22	7,141364E+22	7,141372E+22	1,481405E+23	1,428274E+23	2,909678E+23
417	7,407022E+22	7,407032E+22	7,141359E+22	7,141299E+22	1,481405E+23	1,428266E+23	2,909671E+23
418	7,406661E+22	7,406833E+22	7,141347E+22	7,141298E+22	1,481349E+23	1,428264E+23	2,909614E+23
419	7,407001E+22	7,407029E+22	7,141298E+22	7,141310E+22	1,481403E+23	1,428261E+23	2,909664E+23
420	7,406854E+22	7,406721E+22	7,141350E+22	7,141213E+22	1,481358E+23	1,428256E+23	2,909614E+23
421	7,406673E+22	7,406768E+22	7,141254E+22	7,141241E+22	1,481344E+23	1,428250E+23	2,909594E+23
422	7,407006E+22	7,406986E+22	7,141148E+22	7,141255E+22	1,481399E+23	1,428240E+23	2,909639E+23
423	7,406695E+22	7,406664E+22	7,141179E+22	7,141217E+22	1,481336E+23	1,428240E+23	2,909576E+23
424	7,406773E+22	7,406872E+22	7,141215E+22	7,141189E+22	1,481364E+23	1,428240E+23	2,909605E+23
425	7,407000E+22	7,406910E+22	7,141247E+22	7,141144E+22	1,481391E+23	1,428239E+23	2,909630E+23
426	7,406668E+22	7,406696E+22	7,141275E+22	7,141196E+22	1,481336E+23	1,428247E+23	2,909584E+23
427	7,406931E+22	7,407021E+22	7,141278E+22	7,141319E+22	1,481395E+23	1,428260E+23	2,909655E+23
428	7,406887E+22	7,406877E+22	7,141381E+22	7,141331E+22	1,481376E+23	1,428271E+23	2,909648E+23
429	7,406663E+22	7,406861E+22	7,141385E+22	7,141390E+22	1,481352E+23	1,428278E+23	2,909630E+23
430	7,407080E+22	7,407124E+22	7,141386E+22	7,141444E+22	1,481420E+23	1,428283E+23	2,909703E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
431	7,406945E+22	7,406778E+22	7,141462E+22	7,141414E+22	1,481372E+23	1,428288E+23	2,909660E+23
432	7,406943E+22	7,406943E+22	7,141480E+22	7,141421E+22	1,481389E+23	1,428290E+23	2,909679E+23
433	7,407210E+22	7,407142E+22	7,141441E+22	7,141439E+22	1,481435E+23	1,428288E+23	2,909723E+23
434	7,406845E+22	7,406886E+22	7,141411E+22	7,141430E+22	1,481373E+23	1,428284E+23	2,909657E+23
435	7,406977E+22	7,407158E+22	7,141413E+22	7,141450E+22	1,481413E+23	1,428286E+23	2,909700E+23
436	7,407042E+22	7,407012E+22	7,141479E+22	7,141365E+22	1,481405E+23	1,428284E+23	2,909690E+23
437	7,406744E+22	7,406812E+22	7,141431E+22	7,141326E+22	1,481356E+23	1,428276E+23	2,909631E+23
438	7,407048E+22	7,407076E+22	7,141366E+22	7,141366E+22	1,481412E+23	1,428273E+23	2,909686E+23
439	7,406913E+22	7,406754E+22	7,141345E+22	7,141327E+22	1,481367E+23	1,428267E+23	2,909634E+23
440	7,406721E+22	7,406832E+22	7,141292E+22	7,141309E+22	1,481355E+23	1,428260E+23	2,909615E+23
441	7,407022E+22	7,407068E+22	7,141246E+22	7,141312E+22	1,481409E+23	1,428256E+23	2,909665E+23
442	7,406761E+22	7,406706E+22	7,141246E+22	7,141231E+22	1,481347E+23	1,428248E+23	2,909594E+23
443	7,406839E+22	7,406930E+22	7,141299E+22	7,141247E+22	1,481377E+23	1,428255E+23	2,909632E+23
444	7,407032E+22	7,406933E+22	7,141370E+22	7,141261E+22	1,481397E+23	1,428263E+23	2,909660E+23
445	7,406698E+22	7,406760E+22	7,141346E+22	7,141311E+22	1,481346E+23	1,428266E+23	2,909611E+23
446	7,406930E+22	7,407121E+22	7,141362E+22	7,141430E+22	1,481405E+23	1,428279E+23	2,909684E+23
447	7,406962E+22	7,406876E+22	7,141436E+22	7,141440E+22	1,481384E+23	1,428288E+23	2,909671E+23
448	7,406793E+22	7,406856E+22	7,141485E+22	7,141424E+22	1,481365E+23	1,428291E+23	2,909656E+23
449	7,407181E+22	7,407161E+22	7,141492E+22	7,141492E+22	1,481434E+23	1,428298E+23	2,909733E+23
450	7,407029E+22	7,406852E+22	7,141490E+22	7,141464E+22	1,481388E+23	1,428295E+23	2,909684E+23
451	7,406974E+22	7,407097E+22	7,141501E+22	7,141519E+22	1,481407E+23	1,428302E+23	2,909709E+23
452	7,407191E+22	7,407226E+22	7,141541E+22	7,141547E+22	1,481442E+23	1,428309E+23	2,909750E+23
453	7,406860E+22	7,406947E+22	7,141522E+22	7,141484E+22	1,481381E+23	1,428301E+23	2,909681E+23
454	7,406999E+22	7,407202E+22	7,141547E+22	7,141491E+22	1,481420E+23	1,428304E+23	2,909724E+23
455	7,407120E+22	7,406958E+22	7,141552E+22	7,141463E+22	1,481408E+23	1,428301E+23	2,909709E+23
456	7,406833E+22	7,406804E+22	7,141492E+22	7,141409E+22	1,481364E+23	1,428290E+23	2,909654E+23
457	7,407068E+22	7,407133E+22	7,141393E+22	7,141472E+22	1,481420E+23	1,428286E+23	2,909707E+23
458	7,406938E+22	7,406821E+22	7,141320E+22	7,141387E+22	1,481376E+23	1,428271E+23	2,909647E+23
459	7,406779E+22	7,406920E+22	7,141308E+22	7,141341E+22	1,481370E+23	1,428265E+23	2,909635E+23
460	7,407076E+22	7,407071E+22	7,141362E+22	7,141334E+22	1,481415E+23	1,428270E+23	2,909684E+23
461	7,406841E+22	7,406746E+22	7,141353E+22	7,141247E+22	1,481359E+23	1,428260E+23	2,909619E+23
462	7,406862E+22	7,407024E+22	7,141410E+22	7,141313E+22	1,481389E+23	1,428272E+23	2,909661E+23
463	7,407050E+22	7,406980E+22	7,141430E+22	7,141412E+22	1,481403E+23	1,428284E+23	2,909687E+23
464	7,406739E+22	7,406808E+22	7,141441E+22	7,141421E+22	1,481355E+23	1,428286E+23	2,909641E+23
465	7,406963E+22	7,407164E+22	7,141482E+22	7,141531E+22	1,481413E+23	1,428301E+23	2,909714E+23
466	7,407059E+22	7,406899E+22	7,141494E+22	7,141502E+22	1,481396E+23	1,428300E+23	2,909695E+23
467	7,406912E+22	7,406923E+22	7,141531E+22	7,141504E+22	1,481384E+23	1,428303E+23	2,909687E+23
468	7,407239E+22	7,407218E+22	7,141586E+22	7,141602E+22	1,481446E+23	1,428319E+23	2,909764E+23
469	7,407064E+22	7,406979E+22	7,141542E+22	7,141547E+22	1,481404E+23	1,428309E+23	2,909713E+23
470	7,406961E+22	7,407226E+22	7,141600E+22	7,141585E+22	1,481419E+23	1,428319E+23	2,909737E+23
471	7,407231E+22	7,407226E+22	7,141631E+22	7,141630E+22	1,481446E+23	1,428326E+23	2,909772E+23
472	7,406951E+22	7,406905E+22	7,141640E+22	7,141514E+22	1,481386E+23	1,428315E+23	2,909701E+23
473	7,407050E+22	7,407192E+22	7,141644E+22	7,141560E+22	1,481424E+23	1,428320E+23	2,909745E+23
474	7,407175E+22	7,406981E+22	7,141532E+22	7,141534E+22	1,481416E+23	1,428307E+23	2,909722E+23
475	7,406865E+22	7,406904E+22	7,141454E+22	7,141498E+22	1,481377E+23	1,428295E+23	2,909672E+23
476	7,407075E+22	7,407189E+22	7,141453E+22	7,141546E+22	1,481426E+23	1,428300E+23	2,909726E+23
477	7,406986E+22	7,406893E+22	7,141393E+22	7,141388E+22	1,481388E+23	1,428278E+23	2,909666E+23
478	7,406826E+22	7,406992E+22	7,141444E+22	7,141340E+22	1,481382E+23	1,428278E+23	2,909660E+23
479	7,407144E+22	7,407062E+22	7,141464E+22	7,141418E+22	1,481421E+23	1,428288E+23	2,909709E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
480	7,406894E+22	7,406773E+22	7,141461E+22	7,141351E+22	1,481367E+23	1,428281E+23	2,909648E+23
481	7,406840E+22	7,407101E+22	7,141495E+22	7,141469E+22	1,481394E+23	1,428296E+23	2,909690E+23
482	7,407064E+22	7,407025E+22	7,141449E+22	7,141533E+22	1,481409E+23	1,428298E+23	2,909707E+23
483	7,406824E+22	7,406865E+22	7,141477E+22	7,141507E+22	1,481369E+23	1,428298E+23	2,909667E+23
484	7,407068E+22	7,407157E+22	7,141589E+22	7,141599E+22	1,481423E+23	1,428319E+23	2,909741E+23
485	7,407176E+22	7,406974E+22	7,141563E+22	7,141536E+22	1,481415E+23	1,428310E+23	2,909725E+23
486	7,406973E+22	7,407070E+22	7,141621E+22	7,141559E+22	1,481404E+23	1,428318E+23	2,909722E+23
487	7,407263E+22	7,407299E+22	7,141657E+22	7,141718E+22	1,481456E+23	1,428337E+23	2,909794E+23
488	7,407097E+22	7,407048E+22	7,141677E+22	7,141618E+22	1,481415E+23	1,428329E+23	2,909744E+23
489	7,406967E+22	7,407258E+22	7,141747E+22	7,141657E+22	1,481422E+23	1,428340E+23	2,909763E+23
490	7,407277E+22	7,407203E+22	7,141695E+22	7,141694E+22	1,481448E+23	1,428339E+23	2,909787E+23
491	7,407035E+22	7,406922E+22	7,141663E+22	7,141607E+22	1,481396E+23	1,428327E+23	2,909723E+23
492	7,407085E+22	7,407188E+22	7,141685E+22	7,141679E+22	1,481427E+23	1,428336E+23	2,909764E+23
493	7,407201E+22	7,407075E+22	7,141521E+22	7,141602E+22	1,481428E+23	1,428312E+23	2,909740E+23
494	7,406891E+22	7,407013E+22	7,141501E+22	7,141516E+22	1,481390E+23	1,428302E+23	2,909692E+23
495	7,407136E+22	7,407192E+22	7,141526E+22	7,141571E+22	1,481433E+23	1,428310E+23	2,909743E+23
496	7,407083E+22	7,406901E+22	7,141521E+22	7,141381E+22	1,481398E+23	1,428290E+23	2,909689E+23
497	7,406851E+22	7,407032E+22	7,141572E+22	7,141408E+22	1,481388E+23	1,428298E+23	2,909686E+23
498	7,407143E+22	7,407119E+22	7,141498E+22	7,141533E+22	1,481426E+23	1,428303E+23	2,909729E+23
499	7,406904E+22	7,406872E+22	7,141484E+22	7,141500E+22	1,481378E+23	1,428298E+23	2,909676E+23
500	7,406851E+22	7,407120E+22	7,141600E+22	7,141608E+22	1,481397E+23	1,428321E+23	2,909718E+23
501	7,407142E+22	7,407077E+22	7,141529E+22	7,141591E+22	1,481422E+23	1,428312E+23	2,909734E+23
502	7,406932E+22	7,406932E+22	7,141592E+22	7,141540E+22	1,481386E+23	1,428313E+23	2,909700E+23
503	7,407188E+22	7,407175E+22	7,141674E+22	7,141692E+22	1,481436E+23	1,428337E+23	2,909773E+23
504	7,407265E+22	7,407048E+22	7,141656E+22	7,141610E+22	1,481431E+23	1,428327E+23	2,909758E+23
505	7,406963E+22	7,407186E+22	7,141723E+22	7,141669E+22	1,481415E+23	1,428339E+23	2,909754E+23
506	7,407266E+22	7,407354E+22	7,141707E+22	7,141795E+22	1,481462E+23	1,428350E+23	2,909812E+23
507	7,407152E+22	7,407076E+22	7,141746E+22	7,141685E+22	1,481423E+23	1,428343E+23	2,909766E+23
508	7,407026E+22	7,407214E+22	7,141864E+22	7,141739E+22	1,481424E+23	1,428360E+23	2,909784E+23
509	7,407345E+22	7,407236E+22	7,141728E+22	7,141749E+22	1,481458E+23	1,428348E+23	2,909806E+23
510	7,407077E+22	7,407028E+22	7,141693E+22	7,141669E+22	1,481410E+23	1,428336E+23	2,909747E+23
511	7,407120E+22	7,407238E+22	7,141697E+22	7,141773E+22	1,481436E+23	1,428347E+23	2,909783E+23
512	7,407253E+22	7,407134E+22	7,141608E+22	7,141620E+22	1,481439E+23	1,428323E+23	2,909762E+23
513	7,406914E+22	7,407073E+22	7,141634E+22	7,141541E+22	1,481399E+23	1,428317E+23	2,909716E+23
514	7,407175E+22	7,407200E+22	7,141603E+22	7,141606E+22	1,481438E+23	1,428321E+23	2,909758E+23
515	7,407137E+22	7,406949E+22	7,141588E+22	7,141481E+22	1,481409E+23	1,428307E+23	2,909715E+23
516	7,406847E+22	7,407050E+22	7,141661E+22	7,141569E+22	1,481390E+23	1,428323E+23	2,909713E+23
517	7,407134E+22	7,407202E+22	7,141529E+22	7,141652E+22	1,481434E+23	1,428318E+23	2,909752E+23
518	7,406954E+22	7,406949E+22	7,141558E+22	7,141571E+22	1,481390E+23	1,428313E+23	2,909703E+23
519	7,406964E+22	7,407084E+22	7,141674E+22	7,141675E+22	1,481405E+23	1,428335E+23	2,909740E+23
520	7,407295E+22	7,407090E+22	7,141640E+22	7,141604E+22	1,481439E+23	1,428324E+23	2,909763E+23
521	7,407015E+22	7,407017E+22	7,141693E+22	7,141594E+22	1,481403E+23	1,428329E+23	2,909732E+23
522	7,407209E+22	7,407274E+22	7,141707E+22	7,141774E+22	1,481448E+23	1,428348E+23	2,909796E+23
523	7,407282E+22	7,407189E+22	7,141714E+22	7,141720E+22	1,481447E+23	1,428343E+23	2,909791E+23
524	7,406956E+22	7,407218E+22	7,141868E+22	7,141789E+22	1,481417E+23	1,428366E+23	2,909783E+23
525	7,407290E+22	7,407398E+22	7,141812E+22	7,141858E+22	1,481469E+23	1,428367E+23	2,909836E+23
526	7,407231E+22	7,407108E+22	7,141853E+22	7,141749E+22	1,481434E+23	1,428360E+23	2,909794E+23
527	7,407109E+22	7,407180E+22	7,141913E+22	7,141859E+22	1,481429E+23	1,428377E+23	2,909806E+23
528	7,407417E+22	7,407284E+22	7,141765E+22	7,141827E+22	1,481470E+23	1,428359E+23	2,909829E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
529	7,407087E+22	7,407125E+22	7,141736E+22	7,141738E+22	1,481421E+23	1,428347E+23	2,909769E+23
530	7,407150E+22	7,407281E+22	7,141716E+22	7,141794E+22	1,481443E+23	1,428351E+23	2,909794E+23
531	7,407331E+22	7,407181E+22	7,141669E+22	7,141629E+22	1,481451E+23	1,428330E+23	2,909781E+23
532	7,406961E+22	7,407059E+22	7,141765E+22	7,141602E+22	1,481402E+23	1,428337E+23	2,909739E+23
533	7,407188E+22	7,407266E+22	7,141665E+22	7,141668E+22	1,481445E+23	1,428333E+23	2,909779E+23
534	7,407141E+22	7,407049E+22	7,141659E+22	7,141584E+22	1,481419E+23	1,428324E+23	2,909743E+23
535	7,406869E+22	7,407064E+22	7,141720E+22	7,141711E+22	1,481393E+23	1,428343E+23	2,909736E+23
536	7,407215E+22	7,407213E+22	7,141627E+22	7,141706E+22	1,481443E+23	1,428333E+23	2,909776E+23
537	7,407029E+22	7,406988E+22	7,141674E+22	7,141617E+22	1,481402E+23	1,428329E+23	2,909731E+23
538	7,407070E+22	7,407104E+22	7,141717E+22	7,141720E+22	1,481417E+23	1,428344E+23	2,909761E+23
539	7,407390E+22	7,407179E+22	7,141686E+22	7,141690E+22	1,481457E+23	1,428338E+23	2,909794E+23
540	7,407026E+22	7,407104E+22	7,141793E+22	7,141738E+22	1,481413E+23	1,428353E+23	2,909766E+23
541	7,407187E+22	7,407404E+22	7,141770E+22	7,141863E+22	1,481459E+23	1,428363E+23	2,909822E+23
542	7,407312E+22	7,407275E+22	7,141838E+22	7,141787E+22	1,481459E+23	1,428363E+23	2,909821E+23
543	7,407037E+22	7,407173E+22	7,141978E+22	7,141879E+22	1,481421E+23	1,428386E+23	2,909807E+23
544	7,407404E+22	7,407379E+22	7,141919E+22	7,141904E+22	1,481478E+23	1,428382E+23	2,909861E+23
545	7,407291E+22	7,407170E+22	7,141922E+22	7,141832E+22	1,481446E+23	1,428375E+23	2,909821E+23
546	7,407147E+22	7,407245E+22	7,141890E+22	7,141943E+22	1,481439E+23	1,428383E+23	2,909823E+23
547	7,407462E+22	7,407391E+22	7,141784E+22	7,141892E+22	1,481485E+23	1,428368E+23	2,909853E+23
548	7,407111E+22	7,407164E+22	7,141851E+22	7,141795E+22	1,481428E+23	1,428365E+23	2,909792E+23
549	7,407171E+22	7,407342E+22	7,141808E+22	7,141794E+22	1,481451E+23	1,428360E+23	2,909812E+23
550	7,407393E+22	7,407236E+22	7,141787E+22	7,141670E+22	1,481463E+23	1,428346E+23	2,909809E+23
551	7,407001E+22	7,407029E+22	7,141838E+22	7,141733E+22	1,481403E+23	1,428357E+23	2,909760E+23
552	7,407209E+22	7,407303E+22	7,141727E+22	7,141776E+22	1,481451E+23	1,428350E+23	2,909802E+23
553	7,407145E+22	7,407113E+22	7,141715E+22	7,141683E+22	1,481426E+23	1,428340E+23	2,909766E+23
554	7,406926E+22	7,407057E+22	7,141730E+22	7,141762E+22	1,481398E+23	1,428349E+23	2,909747E+23
555	7,407341E+22	7,407243E+22	7,141677E+22	7,141735E+22	1,481458E+23	1,428341E+23	2,909800E+23
556	7,407123E+22	7,407012E+22	7,141774E+22	7,141682E+22	1,481413E+23	1,428346E+23	2,909759E+23
557	7,407105E+22	7,407235E+22	7,141766E+22	7,141771E+22	1,481434E+23	1,428354E+23	2,909788E+23
558	7,407412E+22	7,407344E+22	7,141771E+22	7,141780E+22	1,481476E+23	1,428355E+23	2,909831E+23
559	7,407036E+22	7,407151E+22	7,141908E+22	7,141874E+22	1,481419E+23	1,428378E+23	2,909797E+23
560	7,407233E+22	7,407435E+22	7,141926E+22	7,141930E+22	1,481467E+23	1,428386E+23	2,909852E+23
561	7,407368E+22	7,407297E+22	7,141990E+22	7,141867E+22	1,481467E+23	1,428386E+23	2,909852E+23
562	7,407132E+22	7,407147E+22	7,142025E+22	7,141971E+22	1,481428E+23	1,428400E+23	2,909827E+23
563	7,407503E+22	7,407426E+22	7,141938E+22	7,142010E+22	1,481493E+23	1,428395E+23	2,909888E+23
564	7,407319E+22	7,407239E+22	7,141963E+22	7,141960E+22	1,481456E+23	1,428392E+23	2,909848E+23
565	7,407160E+22	7,407362E+22	7,141900E+22	7,141977E+22	1,481452E+23	1,428388E+23	2,909840E+23
566	7,407522E+22	7,407471E+22	7,141869E+22	7,141895E+22	1,481499E+23	1,428376E+23	2,909876E+23
567	7,407186E+22	7,407141E+22	7,141959E+22	7,141837E+22	1,481433E+23	1,428380E+23	2,909812E+23
568	7,407240E+22	7,407347E+22	7,141914E+22	7,141811E+22	1,481459E+23	1,428373E+23	2,909831E+23
569	7,407385E+22	7,407303E+22	7,141872E+22	7,141757E+22	1,481469E+23	1,428363E+23	2,909832E+23
570	7,406998E+22	7,407070E+22	7,141832E+22	7,141847E+22	1,481407E+23	1,428368E+23	2,909775E+23
571	7,407244E+22	7,407349E+22	7,141758E+22	7,141869E+22	1,481459E+23	1,428363E+23	2,909822E+23
572	7,407188E+22	7,407127E+22	7,141814E+22	7,141774E+22	1,481432E+23	1,428359E+23	2,909790E+23
573	7,406998E+22	7,407117E+22	7,141781E+22	7,141779E+22	1,481412E+23	1,428356E+23	2,909768E+23
574	7,407446E+22	7,407325E+22	7,141767E+22	7,141781E+22	1,481477E+23	1,428355E+23	2,909832E+23
575	7,407184E+22	7,407061E+22	7,141856E+22	7,141805E+22	1,481425E+23	1,428366E+23	2,909791E+23
576	7,407128E+22	7,407334E+22	7,141866E+22	7,141857E+22	1,481446E+23	1,428372E+23	2,909819E+23
577	7,407408E+22	7,407443E+22	7,141903E+22	7,141875E+22	1,481485E+23	1,428378E+23	2,909863E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
578	7,407096E+22	7,407140E+22	7,141988E+22	7,141953E+22	1,481424E+23	1,428394E+23	2,909818E+23
579	7,407346E+22	7,407432E+22	7,142019E+22	7,142001E+22	1,481478E+23	1,428402E+23	2,909880E+23
580	7,407452E+22	7,407304E+22	7,142083E+22	7,141985E+22	1,481476E+23	1,428407E+23	2,909882E+23
581	7,407172E+22	7,407254E+22	7,142027E+22	7,142049E+22	1,481443E+23	1,428408E+23	2,909850E+23
582	7,407557E+22	7,407567E+22	7,141976E+22	7,142091E+22	1,481512E+23	1,428407E+23	2,909919E+23
583	7,407360E+22	7,407281E+22	7,142034E+22	7,142037E+22	1,481464E+23	1,428407E+23	2,909871E+23
584	7,407213E+22	7,407408E+22	7,142023E+22	7,141973E+22	1,481462E+23	1,428400E+23	2,909862E+23
585	7,407559E+22	7,407518E+22	7,142003E+22	7,141916E+22	1,481508E+23	1,428392E+23	2,909900E+23
586	7,407227E+22	7,407117E+22	7,142007E+22	7,141914E+22	1,481434E+23	1,428392E+23	2,909827E+23
587	7,407263E+22	7,407385E+22	7,141951E+22	7,141927E+22	1,481465E+23	1,428388E+23	2,909853E+23
588	7,407361E+22	7,407340E+22	7,141918E+22	7,141911E+22	1,481470E+23	1,428383E+23	2,909853E+23
589	7,407001E+22	7,407133E+22	7,141834E+22	7,141902E+22	1,481413E+23	1,428374E+23	2,909787E+23
590	7,407344E+22	7,407387E+22	7,141818E+22	7,141891E+22	1,481473E+23	1,428371E+23	2,909844E+23
591	7,407303E+22	7,407108E+22	7,141891E+22	7,141819E+22	1,481441E+23	1,428371E+23	2,909812E+23
592	7,407101E+22	7,407178E+22	7,141874E+22	7,141792E+22	1,481428E+23	1,428367E+23	2,909795E+23
593	7,407465E+22	7,407457E+22	7,141870E+22	7,141853E+22	1,481492E+23	1,428372E+23	2,909865E+23
594	7,407193E+22	7,407143E+22	7,141917E+22	7,141918E+22	1,481434E+23	1,428384E+23	2,909817E+23
595	7,407158E+22	7,407399E+22	7,141981E+22	7,141960E+22	1,481456E+23	1,428394E+23	2,909850E+23
596	7,407431E+22	7,407458E+22	7,142061E+22	7,142007E+22	1,481489E+23	1,428407E+23	2,909896E+23
597	7,407164E+22	7,407177E+22	7,142062E+22	7,142029E+22	1,481434E+23	1,428409E+23	2,909843E+23
598	7,407461E+22	7,407471E+22	7,142086E+22	7,142105E+22	1,481493E+23	1,428419E+23	2,909912E+23
599	7,407521E+22	7,407347E+22	7,142118E+22	7,142132E+22	1,481487E+23	1,428425E+23	2,909912E+23
600	7,407230E+22	7,407357E+22	7,142059E+22	7,142103E+22	1,481459E+23	1,428416E+23	2,909875E+23
601	7,407576E+22	7,407663E+22	7,142068E+22	7,142114E+22	1,481524E+23	1,428418E+23	2,909942E+23
602	7,407424E+22	7,407293E+22	7,142099E+22	7,142050E+22	1,481472E+23	1,428415E+23	2,909887E+23
603	7,407291E+22	7,407416E+22	7,142120E+22	7,141991E+22	1,481471E+23	1,428411E+23	2,909882E+23
604	7,407564E+22	7,407538E+22	7,142105E+22	7,142021E+22	1,481510E+23	1,428413E+23	2,909923E+23
605	7,407205E+22	7,407201E+22	7,142013E+22	7,142002E+22	1,481441E+23	1,428401E+23	2,909842E+23
606	7,407281E+22	7,407456E+22	7,141988E+22	7,142031E+22	1,481474E+23	1,428402E+23	2,909876E+23
607	7,407395E+22	7,407336E+22	7,141985E+22	7,142011E+22	1,481473E+23	1,428400E+23	2,909873E+23
608	7,407091E+22	7,407157E+22	7,141921E+22	7,141905E+22	1,481425E+23	1,428383E+23	2,909807E+23
609	7,407429E+22	7,407437E+22	7,141933E+22	7,141910E+22	1,481487E+23	1,428384E+23	2,909871E+23
610	7,407388E+22	7,407136E+22	7,141937E+22	7,141891E+22	1,481452E+23	1,428383E+23	2,909835E+23
611	7,407143E+22	7,407272E+22	7,141946E+22	7,141894E+22	1,481442E+23	1,428384E+23	2,909826E+23
612	7,407434E+22	7,407549E+22	7,141975E+22	7,142005E+22	1,481498E+23	1,428398E+23	2,909896E+23
613	7,407189E+22	7,407216E+22	7,141990E+22	7,141999E+22	1,481440E+23	1,428399E+23	2,909839E+23
614	7,407252E+22	7,407425E+22	7,142095E+22	7,142043E+22	1,481468E+23	1,428414E+23	2,909881E+23
615	7,407534E+22	7,407422E+22	7,142152E+22	7,142115E+22	1,481496E+23	1,428427E+23	2,909922E+23
616	7,407267E+22	7,407230E+22	7,142120E+22	7,142090E+22	1,481450E+23	1,428421E+23	2,909871E+23
617	7,407508E+22	7,407597E+22	7,142143E+22	7,142183E+22	1,481511E+23	1,428433E+23	2,909943E+23
618	7,407563E+22	7,407423E+22	7,142137E+22	7,142208E+22	1,481499E+23	1,428434E+23	2,909933E+23
619	7,407287E+22	7,407431E+22	7,142161E+22	7,142137E+22	1,481472E+23	1,428430E+23	2,909902E+23
620	7,407595E+22	7,407696E+22	7,142214E+22	7,142176E+22	1,481529E+23	1,428439E+23	2,909968E+23
621	7,407451E+22	7,407330E+22	7,142182E+22	7,142086E+22	1,481478E+23	1,428427E+23	2,909905E+23
622	7,407343E+22	7,407448E+22	7,142193E+22	7,142094E+22	1,481479E+23	1,428429E+23	2,909908E+23
623	7,407557E+22	7,407548E+22	7,142143E+22	7,142178E+22	1,481511E+23	1,428432E+23	2,909943E+23
624	7,407231E+22	7,407254E+22	7,142041E+22	7,142073E+22	1,481448E+23	1,428411E+23	2,909860E+23
625	7,407328E+22	7,407490E+22	7,142060E+22	7,142061E+22	1,481482E+23	1,428412E+23	2,909894E+23
626	7,407502E+22	7,407316E+22	7,142021E+22	7,142028E+22	1,481482E+23	1,428405E+23	2,909887E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
627	7,407216E+22	7,407187E+22	7,141997E+22	7,141914E+22	1,481440E+23	1,428391E+23	2,909831E+23
628	7,407447E+22	7,407518E+22	7,142029E+22	7,142003E+22	1,481497E+23	1,428403E+23	2,909900E+23
629	7,407372E+22	7,407281E+22	7,141977E+22	7,141975E+22	1,481465E+23	1,428395E+23	2,909860E+23
630	7,407159E+22	7,407368E+22	7,142037E+22	7,142012E+22	1,481453E+23	1,428405E+23	2,909858E+23
631	7,407438E+22	7,407562E+22	7,142106E+22	7,142139E+22	1,481500E+23	1,428424E+23	2,909924E+23
632	7,407275E+22	7,407236E+22	7,142106E+22	7,142056E+22	1,481451E+23	1,428416E+23	2,909867E+23
633	7,407342E+22	7,407438E+22	7,142213E+22	7,142116E+22	1,481478E+23	1,428433E+23	2,909911E+23
634	7,407633E+22	7,407438E+22	7,142179E+22	7,142228E+22	1,481507E+23	1,428441E+23	2,909948E+23
635	7,407349E+22	7,407321E+22	7,142157E+22	7,142181E+22	1,481467E+23	1,428434E+23	2,909901E+23
636	7,407515E+22	7,407696E+22	7,142222E+22	7,142284E+22	1,481521E+23	1,428451E+23	2,909972E+23
637	7,407592E+22	7,407512E+22	7,142198E+22	7,142218E+22	1,481510E+23	1,428442E+23	2,909952E+23
638	7,407377E+22	7,407468E+22	7,142272E+22	7,142169E+22	1,481484E+23	1,428444E+23	2,909929E+23
639	7,407635E+22	7,407685E+22	7,142324E+22	7,142263E+22	1,481532E+23	1,428459E+23	2,909991E+23
640	7,407487E+22	7,407384E+22	7,142249E+22	7,142155E+22	1,481487E+23	1,428440E+23	2,909927E+23
641	7,407340E+22	7,407522E+22	7,142260E+22	7,142192E+22	1,481486E+23	1,428445E+23	2,909931E+23
642	7,407584E+22	7,407560E+22	7,142158E+22	7,142276E+22	1,481514E+23	1,428443E+23	2,909958E+23
643	7,407308E+22	7,407277E+22	7,142113E+22	7,142108E+22	1,481458E+23	1,428422E+23	2,909881E+23
644	7,407385E+22	7,407514E+22	7,142156E+22	7,142118E+22	1,481490E+23	1,428427E+23	2,909917E+23
645	7,407563E+22	7,407370E+22	7,142062E+22	7,142050E+22	1,481493E+23	1,428411E+23	2,909904E+23
646	7,407287E+22	7,407274E+22	7,142059E+22	7,142009E+22	1,481456E+23	1,428407E+23	2,909863E+23
647	7,407427E+22	7,407583E+22	7,142095E+22	7,142140E+22	1,481501E+23	1,428423E+23	2,909924E+23
648	7,407375E+22	7,407360E+22	7,142061E+22	7,142047E+22	1,481474E+23	1,428411E+23	2,909884E+23
649	7,407199E+22	7,407397E+22	7,142172E+22	7,142068E+22	1,481460E+23	1,428424E+23	2,909884E+23
650	7,407538E+22	7,407512E+22	7,142178E+22	7,142209E+22	1,481505E+23	1,428439E+23	2,909944E+23
651	7,407407E+22	7,407246E+22	7,142191E+22	7,142117E+22	1,481465E+23	1,428431E+23	2,909896E+23
652	7,407395E+22	7,407514E+22	7,142275E+22	7,142239E+22	1,481491E+23	1,428451E+23	2,909942E+23
653	7,407656E+22	7,407574E+22	7,142193E+22	7,142299E+22	1,481523E+23	1,428449E+23	2,909972E+23
654	7,407414E+22	7,407440E+22	7,142235E+22	7,142260E+22	1,481485E+23	1,428450E+23	2,909935E+23
655	7,407535E+22	7,407738E+22	7,142357E+22	7,142361E+22	1,481527E+23	1,428472E+23	2,909999E+23
656	7,407661E+22	7,407564E+22	7,142331E+22	7,142245E+22	1,481522E+23	1,428458E+23	2,909980E+23
657	7,407432E+22	7,407492E+22	7,142410E+22	7,142240E+22	1,481492E+23	1,428465E+23	2,909957E+23
658	7,407664E+22	7,407687E+22	7,142357E+22	7,142397E+22	1,481535E+23	1,428475E+23	2,910011E+23
659	7,407525E+22	7,407434E+22	7,142281E+22	7,142268E+22	1,481496E+23	1,428455E+23	2,909951E+23
660	7,407338E+22	7,407559E+22	7,142308E+22	7,142302E+22	1,481490E+23	1,428461E+23	2,909951E+23
661	7,407640E+22	7,407594E+22	7,142180E+22	7,142281E+22	1,481523E+23	1,428446E+23	2,909969E+23
662	7,407440E+22	7,407299E+22	7,142162E+22	7,142118E+22	1,481474E+23	1,428428E+23	2,909902E+23
663	7,407436E+22	7,407538E+22	7,142229E+22	7,142171E+22	1,481497E+23	1,428440E+23	2,909937E+23
664	7,407599E+22	7,407486E+22	7,142115E+22	7,142083E+22	1,481509E+23	1,428420E+23	2,909928E+23
665	7,407275E+22	7,407375E+22	7,142163E+22	7,142085E+22	1,481465E+23	1,428425E+23	2,909890E+23
666	7,407424E+22	7,407605E+22	7,142179E+22	7,142243E+22	1,481503E+23	1,428442E+23	2,909945E+23
667	7,407443E+22	7,407367E+22	7,142193E+22	7,142115E+22	1,481481E+23	1,428431E+23	2,909912E+23
668	7,407257E+22	7,407392E+22	7,142297E+22	7,142178E+22	1,481465E+23	1,428447E+23	2,909912E+23
669	7,407621E+22	7,407540E+22	7,142219E+22	7,142284E+22	1,481516E+23	1,428450E+23	2,909966E+23
670	7,407512E+22	7,407336E+22	7,142217E+22	7,142241E+22	1,481485E+23	1,428446E+23	2,909931E+23
671	7,407416E+22	7,407611E+22	7,142321E+22	7,142372E+22	1,481503E+23	1,428469E+23	2,909972E+23
672	7,407706E+22	7,407692E+22	7,142270E+22	7,142335E+22	1,481540E+23	1,428461E+23	2,910000E+23
673	7,407480E+22	7,407504E+22	7,142391E+22	7,142281E+22	1,481498E+23	1,428467E+23	2,909966E+23
674	7,407609E+22	7,407726E+22	7,142460E+22	7,142416E+22	1,481533E+23	1,428488E+23	2,910021E+23
675	7,407738E+22	7,407587E+22	7,142442E+22	7,142319E+22	1,481532E+23	1,428476E+23	2,910009E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
676	7,407429E+22	7,407552E+22	7,142478E+22	7,142388E+22	1,481498E+23	1,428487E+23	2,909985E+23
677	7,407657E+22	7,407750E+22	7,142355E+22	7,142485E+22	1,481541E+23	1,428484E+23	2,910025E+23
678	7,407592E+22	7,407490E+22	7,142314E+22	7,142349E+22	1,481508E+23	1,428466E+23	2,909974E+23
679	7,407389E+22	7,407564E+22	7,142371E+22	7,142352E+22	1,481495E+23	1,428472E+23	2,909968E+23
680	7,407729E+22	7,407631E+22	7,142248E+22	7,142263E+22	1,481536E+23	1,428451E+23	2,909987E+23
681	7,407511E+22	7,407356E+22	7,142267E+22	7,142141E+22	1,481487E+23	1,428441E+23	2,909928E+23
682	7,407450E+22	7,407578E+22	7,142265E+22	7,142260E+22	1,481503E+23	1,428453E+23	2,909955E+23
683	7,407611E+22	7,407559E+22	7,142195E+22	7,142172E+22	1,481517E+23	1,428437E+23	2,909954E+23
684	7,407260E+22	7,407411E+22	7,142266E+22	7,142201E+22	1,481467E+23	1,428447E+23	2,909914E+23
685	7,407464E+22	7,407603E+22	7,142245E+22	7,142287E+22	1,481507E+23	1,428453E+23	2,909960E+23
686	7,407573E+22	7,407380E+22	7,142257E+22	7,142198E+22	1,481495E+23	1,428445E+23	2,909941E+23
687	7,407327E+22	7,407422E+22	7,142353E+22	7,142295E+22	1,481475E+23	1,428465E+23	2,909940E+23
688	7,407688E+22	7,407671E+22	7,142256E+22	7,142357E+22	1,481536E+23	1,428461E+23	2,909997E+23
689	7,407559E+22	7,407475E+22	7,142315E+22	7,142311E+22	1,481503E+23	1,428463E+23	2,909966E+23
690	7,407455E+22	7,407676E+22	7,142417E+22	7,142446E+22	1,481513E+23	1,428486E+23	2,909999E+23
691	7,407792E+22	7,407742E+22	7,142429E+22	7,142379E+22	1,481553E+23	1,428481E+23	2,910034E+23
692	7,407520E+22	7,407524E+22	7,142546E+22	7,142390E+22	1,481504E+23	1,428494E+23	2,909998E+23
693	7,407642E+22	7,407752E+22	7,142525E+22	7,142510E+22	1,481539E+23	1,428504E+23	2,910043E+23
694	7,407797E+22	7,407646E+22	7,142457E+22	7,142466E+22	1,481544E+23	1,428492E+23	2,910037E+23
695	7,407423E+22	7,407588E+22	7,142499E+22	7,142523E+22	1,481501E+23	1,428502E+23	2,910003E+23
696	7,407719E+22	7,407802E+22	7,142384E+22	7,142498E+22	1,481552E+23	1,428488E+23	2,910040E+23
697	7,407689E+22	7,407514E+22	7,142401E+22	7,142324E+22	1,481520E+23	1,428473E+23	2,909993E+23
698	7,407482E+22	7,407559E+22	7,142420E+22	7,142359E+22	1,481504E+23	1,428478E+23	2,909982E+23
699	7,407806E+22	7,407689E+22	7,142327E+22	7,142284E+22	1,481549E+23	1,428461E+23	2,910011E+23
700	7,407481E+22	7,407455E+22	7,142349E+22	7,142253E+22	1,481494E+23	1,428460E+23	2,909954E+23
701	7,407406E+22	7,407654E+22	7,142315E+22	7,142339E+22	1,481506E+23	1,428465E+23	2,909971E+23
702	7,407641E+22	7,407605E+22	7,142277E+22	7,142281E+22	1,481525E+23	1,428456E+23	2,909980E+23
703	7,407291E+22	7,407401E+22	7,142370E+22	7,142313E+22	1,481469E+23	1,428468E+23	2,909938E+23
704	7,407567E+22	7,407619E+22	7,142321E+22	7,142341E+22	1,481519E+23	1,428466E+23	2,909985E+23
705	7,407675E+22	7,407441E+22	7,142341E+22	7,142281E+22	1,481512E+23	1,428462E+23	2,909974E+23
706	7,407389E+22	7,407496E+22	7,142366E+22	7,142413E+22	1,481489E+23	1,428478E+23	2,909966E+23
707	7,407751E+22	7,407774E+22	7,142339E+22	7,142431E+22	1,481552E+23	1,428477E+23	2,910029E+23
708	7,407590E+22	7,407558E+22	7,142449E+22	7,142393E+22	1,481515E+23	1,428484E+23	2,909999E+23
709	7,407512E+22	7,407695E+22	7,142518E+22	7,142464E+22	1,481521E+23	1,428498E+23	2,910019E+23
710	7,407891E+22	7,407776E+22	7,142523E+22	7,142467E+22	1,481567E+23	1,428499E+23	2,910066E+23
711	7,407547E+22	7,407557E+22	7,142616E+22	7,142525E+22	1,481510E+23	1,428514E+23	2,910024E+23
712	7,407662E+22	7,407831E+22	7,142556E+22	7,142597E+22	1,481549E+23	1,428515E+23	2,910065E+23
713	7,407830E+22	7,407726E+22	7,142531E+22	7,142540E+22	1,481556E+23	1,428507E+23	2,910063E+23
714	7,407480E+22	7,407600E+22	7,142538E+22	7,142577E+22	1,481508E+23	1,428511E+23	2,910019E+23
715	7,407825E+22	7,407817E+22	7,142484E+22	7,142501E+22	1,481564E+23	1,428499E+23	2,910063E+23
716	7,407744E+22	7,407554E+22	7,142501E+22	7,142376E+22	1,481530E+23	1,428488E+23	2,910017E+23
717	7,407500E+22	7,407610E+22	7,142457E+22	7,142404E+22	1,481511E+23	1,428486E+23	2,909997E+23
718	7,407817E+22	7,407791E+22	7,142353E+22	7,142407E+22	1,481561E+23	1,428476E+23	2,910037E+23
719	7,407437E+22	7,407506E+22	7,142415E+22	7,142391E+22	1,481494E+23	1,428481E+23	2,909975E+23
720	7,407432E+22	7,407681E+22	7,142397E+22	7,142386E+22	1,481511E+23	1,428478E+23	2,909990E+23
721	7,407730E+22	7,407605E+22	7,142394E+22	7,142320E+22	1,481534E+23	1,428471E+23	2,910005E+23
722	7,407394E+22	7,407385E+22	7,142415E+22	7,142387E+22	1,481478E+23	1,428480E+23	2,909958E+23
723	7,407682E+22	7,407676E+22	7,142385E+22	7,142411E+22	1,481536E+23	1,428480E+23	2,910015E+23
724	7,407699E+22	7,407561E+22	7,142409E+22	7,142394E+22	1,481526E+23	1,428480E+23	2,910006E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
725	7,407410E+22	7,407599E+22	7,142430E+22	7,142467E+22	1,481501E+23	1,428490E+23	2,909991E+23
726	7,407820E+22	7,407860E+22	7,142441E+22	7,142505E+22	1,481568E+23	1,428495E+23	2,910063E+23
727	7,407619E+22	7,407582E+22	7,142596E+22	7,142492E+22	1,481520E+23	1,428509E+23	2,910029E+23
728	7,407576E+22	7,407731E+22	7,142633E+22	7,142532E+22	1,481531E+23	1,428517E+23	2,910047E+23
729	7,407940E+22	7,407827E+22	7,142621E+22	7,142580E+22	1,481577E+23	1,428520E+23	2,910097E+23
730	7,407573E+22	7,407598E+22	7,142625E+22	7,142672E+22	1,481517E+23	1,428530E+23	2,910047E+23
731	7,407732E+22	7,407870E+22	7,142610E+22	7,142670E+22	1,481560E+23	1,428528E+23	2,910088E+23
732	7,407880E+22	7,407766E+22	7,142612E+22	7,142589E+22	1,481565E+23	1,428520E+23	2,910085E+23
733	7,407564E+22	7,407614E+22	7,142582E+22	7,142557E+22	1,481518E+23	1,428514E+23	2,910032E+23
734	7,407919E+22	7,407874E+22	7,142530E+22	7,142542E+22	1,481579E+23	1,428507E+23	2,910086E+23
735	7,407734E+22	7,407631E+22	7,142568E+22	7,142476E+22	1,481537E+23	1,428504E+23	2,910041E+23
736	7,407479E+22	7,407711E+22	7,142513E+22	7,142471E+22	1,481519E+23	1,428498E+23	2,910017E+23
737	7,407803E+22	7,407861E+22	7,142468E+22	7,142484E+22	1,481566E+23	1,428495E+23	2,910062E+23
738	7,407471E+22	7,407490E+22	7,142493E+22	7,142481E+22	1,481496E+23	1,428497E+23	2,909994E+23
739	7,407540E+22	7,407643E+22	7,142514E+22	7,142440E+22	1,481518E+23	1,428495E+23	2,910014E+23
740	7,407810E+22	7,407622E+22	7,142489E+22	7,142420E+22	1,481543E+23	1,428491E+23	2,910034E+23
741	7,407464E+22	7,407432E+22	7,142418E+22	7,142456E+22	1,481490E+23	1,428487E+23	2,909977E+23
742	7,407739E+22	7,407798E+22	7,142392E+22	7,142524E+22	1,481554E+23	1,428492E+23	2,910045E+23
743	7,407705E+22	7,407659E+22	7,142486E+22	7,142492E+22	1,481536E+23	1,428498E+23	2,910034E+23
744	7,407461E+22	7,407660E+22	7,142545E+22	7,142481E+22	1,481512E+23	1,428503E+23	2,910015E+23
745	7,407892E+22	7,407904E+22	7,142602E+22	7,142543E+22	1,481580E+23	1,428514E+23	2,910094E+23
746	7,407686E+22	7,407590E+22	7,142681E+22	7,142601E+22	1,481528E+23	1,428528E+23	2,910056E+23
747	7,407643E+22	7,407773E+22	7,142723E+22	7,142647E+22	1,481542E+23	1,428537E+23	2,910079E+23
748	7,407941E+22	7,407917E+22	7,142691E+22	7,142721E+22	1,481586E+23	1,428541E+23	2,910127E+23
749	7,407609E+22	7,407648E+22	7,142653E+22	7,142732E+22	1,481526E+23	1,428539E+23	2,910064E+23
750	7,407828E+22	7,407927E+22	7,142661E+22	7,142728E+22	1,481576E+23	1,428539E+23	2,910114E+23
751	7,407938E+22	7,407797E+22	7,142707E+22	7,142646E+22	1,481573E+23	1,428535E+23	2,910109E+23
752	7,407629E+22	7,407670E+22	7,142664E+22	7,142576E+22	1,481530E+23	1,428524E+23	2,910054E+23
753	7,407937E+22	7,407963E+22	7,142620E+22	7,142611E+22	1,481590E+23	1,428523E+23	2,910113E+23
754	7,407714E+22	7,407682E+22	7,142608E+22	7,142600E+22	1,481540E+23	1,428521E+23	2,910060E+23
755	7,407515E+22	7,407718E+22	7,142612E+22	7,142544E+22	1,481523E+23	1,428516E+23	2,910039E+23
756	7,407832E+22	7,407848E+22	7,142574E+22	7,142552E+22	1,481568E+23	1,428513E+23	2,910081E+23
757	7,407561E+22	7,407460E+22	7,142529E+22	7,142505E+22	1,481502E+23	1,428503E+23	2,910006E+23
758	7,407661E+22	7,407682E+22	7,142518E+22	7,142515E+22	1,481534E+23	1,428503E+23	2,910038E+23
759	7,407829E+22	7,407708E+22	7,142522E+22	7,142528E+22	1,481554E+23	1,428505E+23	2,910059E+23
760	7,407485E+22	7,407569E+22	7,142469E+22	7,142504E+22	1,481505E+23	1,428497E+23	2,910003E+23
761	7,407762E+22	7,407909E+22	7,142523E+22	7,142569E+22	1,481567E+23	1,428509E+23	2,910076E+23
762	7,407746E+22	7,407695E+22	7,142612E+22	7,142574E+22	1,481544E+23	1,428519E+23	2,910063E+23
763	7,407559E+22	7,407657E+22	7,142711E+22	7,142554E+22	1,481522E+23	1,428527E+23	2,910048E+23
764	7,407925E+22	7,407935E+22	7,142734E+22	7,142677E+22	1,481586E+23	1,428541E+23	2,910127E+23
765	7,407725E+22	7,407633E+22	7,142705E+22	7,142730E+22	1,481536E+23	1,428543E+23	2,910079E+23
766	7,407702E+22	7,407853E+22	7,142724E+22	7,142795E+22	1,481556E+23	1,428552E+23	2,910107E+23
767	7,407972E+22	7,407967E+22	7,142755E+22	7,142822E+22	1,481594E+23	1,428558E+23	2,910152E+23
768	7,407708E+22	7,407692E+22	7,142726E+22	7,142715E+22	1,481540E+23	1,428544E+23	2,910084E+23
769	7,407930E+22	7,407980E+22	7,142770E+22	7,142721E+22	1,481591E+23	1,428549E+23	2,910140E+23
770	7,407998E+22	7,407844E+22	7,142765E+22	7,142707E+22	1,481584E+23	1,428547E+23	2,910132E+23
771	7,407666E+22	7,407729E+22	7,142756E+22	7,142649E+22	1,481540E+23	1,428541E+23	2,910080E+23
772	7,407887E+22	7,408048E+22	7,142721E+22	7,142719E+22	1,481594E+23	1,428544E+23	2,910138E+23
773	7,407719E+22	7,407688E+22	7,142658E+22	7,142661E+22	1,481541E+23	1,428532E+23	2,910073E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
774	7,407584E+22	7,407714E+22	7,142664E+22	7,142627E+22	1,481530E+23	1,428529E+23	2,910059E+23
775	7,407887E+22	7,407836E+22	7,142648E+22	7,142641E+22	1,481572E+23	1,428529E+23	2,910101E+23
776	7,407642E+22	7,407501E+22	7,142560E+22	7,142545E+22	1,481514E+23	1,428510E+23	2,910025E+23
777	7,407710E+22	7,407797E+22	7,142560E+22	7,142589E+22	1,481551E+23	1,428515E+23	2,910066E+23
778	7,407848E+22	7,407804E+22	7,142551E+22	7,142627E+22	1,481565E+23	1,428518E+23	2,910083E+23
779	7,407553E+22	7,407617E+22	7,142603E+22	7,142547E+22	1,481517E+23	1,428515E+23	2,910032E+23
780	7,407791E+22	7,407950E+22	7,142690E+22	7,142620E+22	1,481574E+23	1,428531E+23	2,910105E+23
781	7,407819E+22	7,407693E+22	7,142708E+22	7,142631E+22	1,481551E+23	1,428534E+23	2,910085E+23
782	7,407645E+22	7,407704E+22	7,142769E+22	7,142690E+22	1,481535E+23	1,428546E+23	2,910081E+23
783	7,407930E+22	7,408005E+22	7,142798E+22	7,142842E+22	1,481594E+23	1,428564E+23	2,910158E+23
784	7,407766E+22	7,407730E+22	7,142753E+22	7,142809E+22	1,481550E+23	1,428556E+23	2,910106E+23
785	7,407778E+22	7,407938E+22	7,142817E+22	7,142846E+22	1,481572E+23	1,428566E+23	2,910138E+23
786	7,408055E+22	7,407996E+22	7,142843E+22	7,142878E+22	1,481605E+23	1,428572E+23	2,910177E+23
787	7,407837E+22	7,407711E+22	7,142862E+22	7,142743E+22	1,481555E+23	1,428560E+23	2,910115E+23
788	7,407952E+22	7,408039E+22	7,142882E+22	7,142791E+22	1,481599E+23	1,428567E+23	2,910166E+23
789	7,407995E+22	7,407906E+22	7,142788E+22	7,142798E+22	1,481590E+23	1,428559E+23	2,910149E+23
790	7,407680E+22	7,407793E+22	7,142769E+22	7,142768E+22	1,481547E+23	1,428554E+23	2,910101E+23
791	7,407864E+22	7,408046E+22	7,142795E+22	7,142813E+22	1,481591E+23	1,428561E+23	2,910152E+23
792	7,407786E+22	7,407684E+22	7,142719E+22	7,142668E+22	1,481547E+23	1,428539E+23	2,910086E+23
793	7,407686E+22	7,407733E+22	7,142720E+22	7,142654E+22	1,481542E+23	1,428537E+23	2,910079E+23
794	7,407952E+22	7,407874E+22	7,142667E+22	7,142722E+22	1,481583E+23	1,428539E+23	2,910121E+23
795	7,407713E+22	7,407587E+22	7,142622E+22	7,142601E+22	1,481530E+23	1,428522E+23	2,910052E+23
796	7,407695E+22	7,407914E+22	7,142667E+22	7,142649E+22	1,481561E+23	1,428532E+23	2,910092E+23
797	7,407879E+22	7,407858E+22	7,142643E+22	7,142670E+22	1,481574E+23	1,428531E+23	2,910105E+23
798	7,407633E+22	7,407649E+22	7,142717E+22	7,142637E+22	1,481528E+23	1,428535E+23	2,910064E+23
799	7,407819E+22	7,407955E+22	7,142832E+22	7,142750E+22	1,481577E+23	1,428558E+23	2,910136E+23
800	7,407876E+22	7,407739E+22	7,142783E+22	7,142739E+22	1,481561E+23	1,428552E+23	2,910114E+23
801	7,407694E+22	7,407799E+22	7,142816E+22	7,142829E+22	1,481549E+23	1,428564E+23	2,910114E+23
802	7,407980E+22	7,408064E+22	7,142830E+22	7,142971E+22	1,481604E+23	1,428580E+23	2,910184E+23
803	7,407891E+22	7,407756E+22	7,142854E+22	7,142840E+22	1,481565E+23	1,428569E+23	2,910134E+23
804	7,407862E+22	7,407995E+22	7,142941E+22	7,142857E+22	1,481586E+23	1,428580E+23	2,910165E+23
805	7,408152E+22	7,408030E+22	7,142893E+22	7,142893E+22	1,481618E+23	1,428579E+23	2,910197E+23
806	7,407890E+22	7,407795E+22	7,142905E+22	7,142835E+22	1,481569E+23	1,428574E+23	2,910142E+23
807	7,407893E+22	7,408130E+22	7,142959E+22	7,142918E+22	1,481602E+23	1,428588E+23	2,910190E+23
808	7,407971E+22	7,407973E+22	7,142851E+22	7,142863E+22	1,481594E+23	1,428571E+23	2,910166E+23
809	7,407710E+22	7,407827E+22	7,142858E+22	7,142832E+22	1,481554E+23	1,428569E+23	2,910123E+23
810	7,407930E+22	7,408013E+22	7,142859E+22	7,142887E+22	1,481594E+23	1,428575E+23	2,910169E+23
811	7,407915E+22	7,407663E+22	7,142803E+22	7,142707E+22	1,481558E+23	1,428551E+23	2,910109E+23
812	7,407730E+22	7,407804E+22	7,142779E+22	7,142717E+22	1,481553E+23	1,428550E+23	2,910103E+23
813	7,407983E+22	7,407955E+22	7,142662E+22	7,142790E+22	1,481594E+23	1,428545E+23	2,910139E+23
814	7,407758E+22	7,407684E+22	7,142665E+22	7,142686E+22	1,481544E+23	1,428535E+23	2,910079E+23
815	7,407694E+22	7,407950E+22	7,142800E+22	7,142718E+22	1,481564E+23	1,428552E+23	2,910116E+23
816	7,407937E+22	7,407885E+22	7,142762E+22	7,142696E+22	1,481582E+23	1,428546E+23	2,910128E+23
817	7,407717E+22	7,407694E+22	7,142819E+22	7,142728E+22	1,481541E+23	1,428555E+23	2,910096E+23
818	7,407859E+22	7,407989E+22	7,142890E+22	7,142905E+22	1,481585E+23	1,428580E+23	2,910164E+23
819	7,407953E+22	7,407811E+22	7,142861E+22	7,142857E+22	1,481576E+23	1,428572E+23	2,910148E+23
820	7,407729E+22	7,407892E+22	7,142903E+22	7,142910E+22	1,481562E+23	1,428581E+23	2,910143E+23
821	7,408062E+22	7,408103E+22	7,142890E+22	7,143014E+22	1,481617E+23	1,428590E+23	2,910207E+23
822	7,408014E+22	7,407816E+22	7,142932E+22	7,142891E+22	1,481583E+23	1,428582E+23	2,910165E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
823	7,407893E+22	7,408034E+22	7,143058E+22	7,142935E+22	1,481593E+23	1,428599E+23	2,910192E+23
824	7,408168E+22	7,408117E+22	7,142960E+22	7,142962E+22	1,481629E+23	1,428592E+23	2,910221E+23
825	7,407891E+22	7,407899E+22	7,142955E+22	7,142952E+22	1,481579E+23	1,428591E+23	2,910170E+23
826	7,407878E+22	7,408144E+22	7,143018E+22	7,143034E+22	1,481602E+23	1,428605E+23	2,910207E+23
827	7,408057E+22	7,407943E+22	7,142953E+22	7,142896E+22	1,481600E+23	1,428585E+23	2,910185E+23
828	7,407783E+22	7,407823E+22	7,142945E+22	7,142848E+22	1,481561E+23	1,428579E+23	2,910140E+23
829	7,408032E+22	7,408007E+22	7,142864E+22	7,142919E+22	1,481604E+23	1,428578E+23	2,910182E+23
830	7,407995E+22	7,407750E+22	7,142802E+22	7,142782E+22	1,481575E+23	1,428558E+23	2,910133E+23
831	7,407704E+22	7,407912E+22	7,142844E+22	7,142806E+22	1,481562E+23	1,428565E+23	2,910127E+23
832	7,407983E+22	7,408056E+22	7,142743E+22	7,142821E+22	1,481604E+23	1,428556E+23	2,910160E+23
833	7,407795E+22	7,407758E+22	7,142792E+22	7,142753E+22	1,481555E+23	1,428555E+23	2,910110E+23
834	7,407736E+22	7,407944E+22	7,142929E+22	7,142827E+22	1,481568E+23	1,428576E+23	2,910144E+23
835	7,408034E+22	7,407872E+22	7,142888E+22	7,142795E+22	1,481591E+23	1,428568E+23	2,910159E+23
836	7,407748E+22	7,407766E+22	7,142897E+22	7,142856E+22	1,481551E+23	1,428575E+23	2,910127E+23
837	7,407917E+22	7,408045E+22	7,142879E+22	7,143025E+22	1,481596E+23	1,428590E+23	2,910187E+23
838	7,408039E+22	7,407884E+22	7,142890E+22	7,142947E+22	1,481592E+23	1,428584E+23	2,910176E+23
839	7,407786E+22	7,407941E+22	7,143013E+22	7,142958E+22	1,481573E+23	1,428597E+23	2,910170E+23
840	7,408154E+22	7,408156E+22	7,142982E+22	7,143006E+22	1,481631E+23	1,428599E+23	2,910230E+23
841	7,408092E+22	7,407913E+22	7,143024E+22	7,142953E+22	1,481600E+23	1,428598E+23	2,910198E+23
842	7,407894E+22	7,408105E+22	7,143135E+22	7,143057E+22	1,481600E+23	1,428619E+23	2,910219E+23
843	7,408186E+22	7,408179E+22	7,143062E+22	7,143054E+22	1,481637E+23	1,428612E+23	2,910248E+23
844	7,407883E+22	7,407956E+22	7,143068E+22	7,143027E+22	1,481584E+23	1,428609E+23	2,910193E+23
845	7,407941E+22	7,408112E+22	7,143072E+22	7,143094E+22	1,481605E+23	1,428617E+23	2,910222E+23
846	7,408170E+22	7,407938E+22	7,143006E+22	7,142964E+22	1,481611E+23	1,428597E+23	2,910208E+23
847	7,407832E+22	7,407842E+22	7,143005E+22	7,142929E+22	1,481567E+23	1,428593E+23	2,910161E+23
848	7,408061E+22	7,408098E+22	7,142872E+22	7,142972E+22	1,481616E+23	1,428584E+23	2,910200E+23
849	7,408017E+22	7,407890E+22	7,142825E+22	7,142866E+22	1,481591E+23	1,428569E+23	2,910160E+23
850	7,407702E+22	7,407953E+22	7,142929E+22	7,142885E+22	1,481566E+23	1,428581E+23	2,910147E+23
851	7,408056E+22	7,408063E+22	7,142890E+22	7,142845E+22	1,481612E+23	1,428573E+23	2,910185E+23
852	7,407850E+22	7,407779E+22	7,142922E+22	7,142798E+22	1,481563E+23	1,428572E+23	2,910135E+23
853	7,407801E+22	7,407933E+22	7,142972E+22	7,142929E+22	1,481573E+23	1,428590E+23	2,910163E+23
854	7,408096E+22	7,407947E+22	7,142914E+22	7,142932E+22	1,481604E+23	1,428585E+23	2,910189E+23
855	7,407749E+22	7,407846E+22	7,142958E+22	7,142978E+22	1,481560E+23	1,428594E+23	2,910153E+23
856	7,407967E+22	7,408125E+22	7,142944E+22	7,143066E+22	1,481609E+23	1,428601E+23	2,910210E+23
857	7,408140E+22	7,407977E+22	7,142983E+22	7,142996E+22	1,481612E+23	1,428598E+23	2,910210E+23
858	7,407864E+22	7,407966E+22	7,143141E+22	7,143032E+22	1,481583E+23	1,428617E+23	2,910200E+23
859	7,408241E+22	7,408199E+22	7,143118E+22	7,143071E+22	1,481644E+23	1,428619E+23	2,910263E+23
860	7,408089E+22	7,408018E+22	7,143128E+22	7,143059E+22	1,481611E+23	1,428619E+23	2,910229E+23
861	7,407902E+22	7,408143E+22	7,143168E+22	7,143183E+22	1,481604E+23	1,428635E+23	2,910239E+23
862	7,408236E+22	7,408201E+22	7,143120E+22	7,143149E+22	1,481644E+23	1,428627E+23	2,910271E+23
863	7,407927E+22	7,407945E+22	7,143159E+22	7,143090E+22	1,481587E+23	1,428625E+23	2,910212E+23
864	7,408035E+22	7,408117E+22	7,143105E+22	7,143105E+22	1,481615E+23	1,428621E+23	2,910236E+23
865	7,408252E+22	7,408026E+22	7,143020E+22	7,143030E+22	1,481628E+23	1,428605E+23	2,910233E+23
866	7,407847E+22	7,407930E+22	7,143041E+22	7,143022E+22	1,481578E+23	1,428606E+23	2,910184E+23
867	7,408088E+22	7,408179E+22	7,142956E+22	7,143009E+22	1,481627E+23	1,428597E+23	2,910223E+23
868	7,408009E+22	7,407977E+22	7,142959E+22	7,142897E+22	1,481599E+23	1,428586E+23	2,910184E+23
869	7,407753E+22	7,407938E+22	7,143019E+22	7,142941E+22	1,481569E+23	1,428596E+23	2,910165E+23
870	7,408126E+22	7,408051E+22	7,142988E+22	7,142933E+22	1,481618E+23	1,428592E+23	2,910210E+23
871	7,407870E+22	7,407795E+22	7,143015E+22	7,142933E+22	1,481567E+23	1,428595E+23	2,910161E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
872	7,407833E+22	7,407993E+22	7,142982E+22	7,143036E+22	1,481583E+23	1,428602E+23	2,910184E+23
873	7,408150E+22	7,408058E+22	7,142931E+22	7,143050E+22	1,481621E+23	1,428598E+23	2,910219E+23
874	7,407814E+22	7,407887E+22	7,143039E+22	7,143051E+22	1,481570E+23	1,428609E+23	2,910179E+23
875	7,408095E+22	7,408155E+22	7,143075E+22	7,143065E+22	1,481625E+23	1,428614E+23	2,910239E+23
876	7,408221E+22	7,408063E+22	7,143122E+22	7,143017E+22	1,481628E+23	1,428614E+23	2,910242E+23
877	7,407926E+22	7,408015E+22	7,143210E+22	7,143128E+22	1,481594E+23	1,428634E+23	2,910228E+23
878	7,408257E+22	7,408296E+22	7,143195E+22	7,143202E+22	1,481655E+23	1,428640E+23	2,910295E+23
879	7,408056E+22	7,408087E+22	7,143236E+22	7,143198E+22	1,481614E+23	1,428643E+23	2,910258E+23
880	7,407922E+22	7,408166E+22	7,143241E+22	7,143253E+22	1,481609E+23	1,428649E+23	2,910258E+23
881	7,408325E+22	7,408239E+22	7,143180E+22	7,143230E+22	1,481656E+23	1,428641E+23	2,910297E+23
882	7,408014E+22	7,407925E+22	7,143225E+22	7,143167E+22	1,481594E+23	1,428639E+23	2,910233E+23
883	7,408133E+22	7,408156E+22	7,143161E+22	7,143147E+22	1,481629E+23	1,428631E+23	2,910260E+23
884	7,408268E+22	7,408152E+22	7,143060E+22	7,143073E+22	1,481642E+23	1,428613E+23	2,910255E+23
885	7,407861E+22	7,407975E+22	7,143065E+22	7,143084E+22	1,481584E+23	1,428615E+23	2,910198E+23
886	7,408120E+22	7,408210E+22	7,143053E+22	7,143042E+22	1,481633E+23	1,428610E+23	2,910243E+23
887	7,408028E+22	7,407967E+22	7,143092E+22	7,142948E+22	1,481600E+23	1,428604E+23	2,910204E+23
888	7,407806E+22	7,407929E+22	7,143086E+22	7,142992E+22	1,481573E+23	1,428608E+23	2,910181E+23
889	7,408182E+22	7,408123E+22	7,143011E+22	7,143058E+22	1,481631E+23	1,428607E+23	2,910238E+23
890	7,407890E+22	7,407856E+22	7,143056E+22	7,143070E+22	1,481575E+23	1,428613E+23	2,910187E+23
891	7,407903E+22	7,408066E+22	7,143057E+22	7,143100E+22	1,481597E+23	1,428616E+23	2,910213E+23
892	7,408208E+22	7,408159E+22	7,143053E+22	7,143080E+22	1,481637E+23	1,428613E+23	2,910250E+23
893	7,407921E+22	7,407911E+22	7,143139E+22	7,143108E+22	1,481583E+23	1,428625E+23	2,910208E+23
894	7,408189E+22	7,408201E+22	7,143203E+22	7,143137E+22	1,481639E+23	1,428634E+23	2,910273E+23
895	7,408229E+22	7,408141E+22	7,143249E+22	7,143153E+22	1,481637E+23	1,428640E+23	2,910277E+23
896	7,407926E+22	7,408100E+22	7,143255E+22	7,143255E+22	1,481603E+23	1,428651E+23	2,910254E+23
897	7,408272E+22	7,408386E+22	7,143239E+22	7,143344E+22	1,481666E+23	1,428658E+23	2,910324E+23
898	7,408109E+22	7,408081E+22	7,143330E+22	7,143295E+22	1,481619E+23	1,428662E+23	2,910281E+23
899	7,408057E+22	7,408142E+22	7,143322E+22	7,143262E+22	1,481620E+23	1,428658E+23	2,910278E+23
900	7,408414E+22	7,408289E+22	7,143252E+22	7,143239E+22	1,481670E+23	1,428649E+23	2,910319E+23
901	7,408092E+22	7,407975E+22	7,143225E+22	7,143221E+22	1,481607E+23	1,428645E+23	2,910251E+23
902	7,408156E+22	7,408249E+22	7,143201E+22	7,143197E+22	1,481640E+23	1,428640E+23	2,910280E+23
903	7,408232E+22	7,408238E+22	7,143168E+22	7,143136E+22	1,481647E+23	1,428630E+23	2,910277E+23
904	7,407869E+22	7,408002E+22	7,143153E+22	7,143116E+22	1,481587E+23	1,428627E+23	2,910214E+23
905	7,408160E+22	7,408240E+22	7,143140E+22	7,143127E+22	1,481640E+23	1,428627E+23	2,910267E+23
906	7,408072E+22	7,407940E+22	7,143193E+22	7,143069E+22	1,481601E+23	1,428626E+23	2,910227E+23
907	7,407876E+22	7,407949E+22	7,143139E+22	7,143091E+22	1,481582E+23	1,428623E+23	2,910205E+23
908	7,408208E+22	7,408230E+22	7,143055E+22	7,143152E+22	1,481644E+23	1,428621E+23	2,910264E+23
909	7,407963E+22	7,407898E+22	7,143075E+22	7,143154E+22	1,481586E+23	1,428623E+23	2,910209E+23
910	7,408006E+22	7,408112E+22	7,143153E+22	7,143125E+22	1,481612E+23	1,428628E+23	2,910240E+23
911	7,408280E+22	7,408211E+22	7,143191E+22	7,143123E+22	1,481649E+23	1,428631E+23	2,910281E+23
912	7,407986E+22	7,407968E+22	7,143228E+22	7,143166E+22	1,481595E+23	1,428639E+23	2,910235E+23
913	7,408217E+22	7,408329E+22	7,143267E+22	7,143277E+22	1,481655E+23	1,428654E+23	2,910309E+23
914	7,408221E+22	7,408203E+22	7,143346E+22	7,143310E+22	1,481642E+23	1,428666E+23	2,910308E+23
915	7,407972E+22	7,408141E+22	7,143359E+22	7,143342E+22	1,481611E+23	1,428670E+23	2,910281E+23
916	7,408334E+22	7,408432E+22	7,143349E+22	7,143384E+22	1,481677E+23	1,428673E+23	2,910350E+23
917	7,408227E+22	7,408049E+22	7,143380E+22	7,143353E+22	1,481628E+23	1,428673E+23	2,910301E+23
918	7,408171E+22	7,408160E+22	7,143386E+22	7,143308E+22	1,481633E+23	1,428669E+23	2,910303E+23
919	7,408434E+22	7,408369E+22	7,143308E+22	7,143321E+22	1,481680E+23	1,428663E+23	2,910343E+23
920	7,408090E+22	7,408071E+22	7,143234E+22	7,143281E+22	1,481616E+23	1,428652E+23	2,910268E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
921	7,408157E+22	7,408349E+22	7,143242E+22	7,143266E+22	1,481651E+23	1,428651E+23	2,910301E+23
922	7,408247E+22	7,408231E+22	7,143287E+22	7,143194E+22	1,481648E+23	1,428648E+23	2,910296E+23
923	7,407950E+22	7,407984E+22	7,143256E+22	7,143143E+22	1,481593E+23	1,428640E+23	2,910233E+23
924	7,408204E+22	7,408281E+22	7,143224E+22	7,143185E+22	1,481648E+23	1,428641E+23	2,910289E+23
925	7,408127E+22	7,407969E+22	7,143201E+22	7,143193E+22	1,481610E+23	1,428639E+23	2,910249E+23
926	7,407927E+22	7,408022E+22	7,143178E+22	7,143181E+22	1,481595E+23	1,428636E+23	2,910231E+23
927	7,408228E+22	7,408309E+22	7,143155E+22	7,143230E+22	1,481654E+23	1,428638E+23	2,910292E+23
928	7,408037E+22	7,407956E+22	7,143155E+22	7,143183E+22	1,481599E+23	1,428634E+23	2,910233E+23
929	7,408093E+22	7,408187E+22	7,143247E+22	7,143194E+22	1,481628E+23	1,428644E+23	2,910272E+23
930	7,408335E+22	7,408249E+22	7,143329E+22	7,143241E+22	1,481658E+23	1,428657E+23	2,910315E+23
931	7,408040E+22	7,408037E+22	7,143315E+22	7,143276E+22	1,481608E+23	1,428659E+23	2,910267E+23
932	7,408207E+22	7,408434E+22	7,143356E+22	7,143386E+22	1,481664E+23	1,428674E+23	2,910338E+23
933	7,408278E+22	7,408212E+22	7,143400E+22	7,143421E+22	1,481649E+23	1,428682E+23	2,910331E+23
934	7,408084E+22	7,408126E+22	7,143447E+22	7,143381E+22	1,481621E+23	1,428683E+23	2,910304E+23
935	7,408421E+22	7,408444E+22	7,143447E+22	7,143430E+22	1,481687E+23	1,428688E+23	2,910374E+23
936	7,408312E+22	7,408105E+22	7,143392E+22	7,143389E+22	1,481642E+23	1,428678E+23	2,910320E+23
937	7,408206E+22	7,408302E+22	7,143387E+22	7,143394E+22	1,481651E+23	1,428678E+23	2,910329E+23
938	7,408416E+22	7,408458E+22	7,143388E+22	7,143414E+22	1,481687E+23	1,428680E+23	2,910368E+23
939	7,408106E+22	7,408132E+22	7,143340E+22	7,143319E+22	1,481624E+23	1,428666E+23	2,910290E+23
940	7,408165E+22	7,408397E+22	7,143380E+22	7,143295E+22	1,481656E+23	1,428668E+23	2,910324E+23
941	7,408315E+22	7,408185E+22	7,143366E+22	7,143285E+22	1,481650E+23	1,428665E+23	2,910315E+23
942	7,408029E+22	7,407970E+22	7,143328E+22	7,143234E+22	1,481600E+23	1,428656E+23	2,910256E+23
943	7,408221E+22	7,408332E+22	7,143269E+22	7,143312E+22	1,481655E+23	1,428658E+23	2,910313E+23
944	7,408156E+22	7,408040E+22	7,143186E+22	7,143279E+22	1,481620E+23	1,428647E+23	2,910266E+23
945	7,407997E+22	7,408120E+22	7,143203E+22	7,143246E+22	1,481612E+23	1,428645E+23	2,910257E+23
946	7,408308E+22	7,408321E+22	7,143272E+22	7,143266E+22	1,481663E+23	1,428654E+23	2,910317E+23
947	7,408144E+22	7,408000E+22	7,143270E+22	7,143196E+22	1,481614E+23	1,428647E+23	2,910261E+23
948	7,408134E+22	7,408293E+22	7,143363E+22	7,143247E+22	1,481643E+23	1,428661E+23	2,910304E+23
949	7,408355E+22	7,408306E+22	7,143388E+22	7,143380E+22	1,481666E+23	1,428677E+23	2,910343E+23
950	7,408069E+22	7,408099E+22	7,143416E+22	7,143391E+22	1,481617E+23	1,428681E+23	2,910297E+23
951	7,408224E+22	7,408473E+22	7,143480E+22	7,143494E+22	1,481670E+23	1,428697E+23	2,910367E+23
952	7,408358E+22	7,408227E+22	7,143461E+22	7,143486E+22	1,481658E+23	1,428695E+23	2,910353E+23
953	7,408198E+22	7,408184E+22	7,143484E+22	7,143464E+22	1,481638E+23	1,428695E+23	2,910333E+23
954	7,408487E+22	7,408481E+22	7,143524E+22	7,143530E+22	1,481697E+23	1,428705E+23	2,910402E+23
955	7,408358E+22	7,408219E+22	7,143431E+22	7,143454E+22	1,481658E+23	1,428689E+23	2,910346E+23
956	7,408194E+22	7,408433E+22	7,143465E+22	7,143438E+22	1,481663E+23	1,428690E+23	2,910353E+23
957	7,408444E+22	7,408469E+22	7,143468E+22	7,143478E+22	1,481691E+23	1,428695E+23	2,910386E+23
958	7,408182E+22	7,408105E+22	7,143463E+22	7,143345E+22	1,481629E+23	1,428681E+23	2,910309E+23
959	7,408200E+22	7,408381E+22	7,143493E+22	7,143367E+22	1,481658E+23	1,428686E+23	2,910344E+23
960	7,408360E+22	7,408205E+22	7,143373E+22	7,143372E+22	1,481656E+23	1,428674E+23	2,910331E+23
961	7,408068E+22	7,408066E+22	7,143301E+22	7,143350E+22	1,481613E+23	1,428665E+23	2,910279E+23
962	7,408242E+22	7,408387E+22	7,143331E+22	7,143410E+22	1,481663E+23	1,428674E+23	2,910337E+23
963	7,408230E+22	7,408114E+22	7,143256E+22	7,143291E+22	1,481634E+23	1,428655E+23	2,910289E+23
964	7,408054E+22	7,408199E+22	7,143333E+22	7,143245E+22	1,481625E+23	1,428658E+23	2,910283E+23
965	7,408387E+22	7,408332E+22	7,143377E+22	7,143343E+22	1,481672E+23	1,428672E+23	2,910344E+23
966	7,408208E+22	7,408037E+22	7,143388E+22	7,143295E+22	1,481624E+23	1,428668E+23	2,910293E+23
967	7,408110E+22	7,408374E+22	7,143466E+22	7,143405E+22	1,481648E+23	1,428687E+23	2,910335E+23
968	7,408360E+22	7,408365E+22	7,143419E+22	7,143508E+22	1,481672E+23	1,428693E+23	2,910365E+23
969	7,408141E+22	7,408156E+22	7,143456E+22	7,143494E+22	1,481630E+23	1,428695E+23	2,910325E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
970	7,408325E+22	7,408456E+22	7,143588E+22	7,143569E+22	1,481678E+23	1,428716E+23	2,910394E+23
971	7,408484E+22	7,408276E+22	7,143524E+22	7,143514E+22	1,481676E+23	1,428704E+23	2,910380E+23
972	7,408262E+22	7,408313E+22	7,143556E+22	7,143503E+22	1,481657E+23	1,428706E+23	2,910363E+23
973	7,408518E+22	7,408563E+22	7,143569E+22	7,143626E+22	1,481708E+23	1,428719E+23	2,910428E+23
974	7,408381E+22	7,408293E+22	7,143546E+22	7,143509E+22	1,481667E+23	1,428706E+23	2,910373E+23
975	7,408185E+22	7,408473E+22	7,143614E+22	7,143503E+22	1,481666E+23	1,428712E+23	2,910378E+23
976	7,408474E+22	7,408454E+22	7,143544E+22	7,143538E+22	1,481693E+23	1,428708E+23	2,910401E+23
977	7,408257E+22	7,408121E+22	7,143504E+22	7,143451E+22	1,481638E+23	1,428696E+23	2,910333E+23
978	7,408244E+22	7,408362E+22	7,143544E+22	7,143496E+22	1,481661E+23	1,428704E+23	2,910365E+23
979	7,408394E+22	7,408281E+22	7,143366E+22	7,143453E+22	1,481668E+23	1,428682E+23	2,910349E+23
980	7,408098E+22	7,408182E+22	7,143336E+22	7,143379E+22	1,481628E+23	1,428671E+23	2,910299E+23
981	7,408313E+22	7,408395E+22	7,143388E+22	7,143441E+22	1,481671E+23	1,428683E+23	2,910354E+23
982	7,408335E+22	7,408134E+22	7,143384E+22	7,143286E+22	1,481647E+23	1,428667E+23	2,910314E+23
983	7,408094E+22	7,408249E+22	7,143470E+22	7,143307E+22	1,481634E+23	1,428678E+23	2,910312E+23
984	7,408392E+22	7,408403E+22	7,143430E+22	7,143451E+22	1,481680E+23	1,428688E+23	2,910368E+23
985	7,408217E+22	7,408156E+22	7,143427E+22	7,143454E+22	1,481637E+23	1,428688E+23	2,910325E+23
986	7,408117E+22	7,408400E+22	7,143582E+22	7,143555E+22	1,481652E+23	1,428714E+23	2,910365E+23
987	7,408431E+22	7,408412E+22	7,143513E+22	7,143578E+22	1,481684E+23	1,428709E+23	2,910393E+23
988	7,408247E+22	7,408217E+22	7,143566E+22	7,143530E+22	1,481646E+23	1,428710E+23	2,910356E+23
989	7,408448E+22	7,408460E+22	7,143661E+22	7,143657E+22	1,481691E+23	1,428732E+23	2,910423E+23
990	7,408581E+22	7,408348E+22	7,143608E+22	7,143583E+22	1,481693E+23	1,428719E+23	2,910412E+23
991	7,408255E+22	7,408428E+22	7,143647E+22	7,143606E+22	1,481668E+23	1,428725E+23	2,910394E+23
992	7,408514E+22	7,408632E+22	7,143620E+22	7,143698E+22	1,481715E+23	1,428732E+23	2,910446E+23
993	7,408431E+22	7,408330E+22	7,143614E+22	7,143575E+22	1,481676E+23	1,428719E+23	2,910395E+23
994	7,408234E+22	7,408423E+22	7,143736E+22	7,143580E+22	1,481666E+23	1,428732E+23	2,910397E+23
995	7,408538E+22	7,408473E+22	7,143580E+22	7,143586E+22	1,481701E+23	1,428717E+23	2,910418E+23
996	7,408287E+22	7,408205E+22	7,143527E+22	7,143511E+22	1,481649E+23	1,428704E+23	2,910353E+23
997	7,408275E+22	7,408404E+22	7,143548E+22	7,143597E+22	1,481668E+23	1,428714E+23	2,910382E+23
998	7,408452E+22	7,408334E+22	7,143442E+22	7,143481E+22	1,481679E+23	1,428692E+23	2,910371E+23
999	7,408128E+22	7,408241E+22	7,143466E+22	7,143409E+22	1,481637E+23	1,428687E+23	2,910324E+23
1000	7,408364E+22	7,408420E+22	7,143468E+22	7,143472E+22	1,481678E+23	1,428694E+23	2,910372E+23
1001	7,408402E+22	7,408196E+22	7,143459E+22	7,143385E+22	1,481660E+23	1,428684E+23	2,910344E+23
1002	7,408103E+22	7,408277E+22	7,143580E+22	7,143466E+22	1,481638E+23	1,428705E+23	2,910343E+23
1003	7,408389E+22	7,408493E+22	7,143477E+22	7,143576E+22	1,481688E+23	1,428705E+23	2,910394E+23
1004	7,408252E+22	7,408240E+22	7,143514E+22	7,143539E+22	1,481649E+23	1,428705E+23	2,910354E+23
1005	7,408226E+22	7,408367E+22	7,143663E+22	7,143639E+22	1,481659E+23	1,428730E+23	2,910390E+23
1006	7,408583E+22	7,408412E+22	7,143628E+22	7,143604E+22	1,481700E+23	1,428723E+23	2,910423E+23
1007	7,408339E+22	7,408293E+22	7,143669E+22	7,143592E+22	1,481663E+23	1,428726E+23	2,910389E+23
1008	7,408487E+22	7,408557E+22	7,143685E+22	7,143735E+22	1,481704E+23	1,428742E+23	2,910447E+23
1009	7,408607E+22	7,408499E+22	7,143653E+22	7,143689E+22	1,481711E+23	1,428734E+23	2,910445E+23
1010	7,408254E+22	7,408469E+22	7,143779E+22	7,143708E+22	1,481672E+23	1,428749E+23	2,910421E+23
1011	7,408524E+22	7,408672E+22	7,143721E+22	7,143742E+22	1,481720E+23	1,428746E+23	2,910466E+23
1012	7,408485E+22	7,408365E+22	7,143721E+22	7,143625E+22	1,481685E+23	1,428735E+23	2,910420E+23
1013	7,408306E+22	7,408371E+22	7,143783E+22	7,143693E+22	1,481668E+23	1,428748E+23	2,910415E+23
1014	7,408604E+22	7,408498E+22	7,143621E+22	7,143668E+22	1,481710E+23	1,428729E+23	2,910439E+23
1015	7,408298E+22	7,408294E+22	7,143562E+22	7,143589E+22	1,481659E+23	1,428715E+23	2,910374E+23
1016	7,408306E+22	7,408451E+22	7,143555E+22	7,143625E+22	1,481676E+23	1,428718E+23	2,910394E+23
1017	7,408537E+22	7,408395E+22	7,143498E+22	7,143497E+22	1,481693E+23	1,428700E+23	2,910393E+23
1018	7,408191E+22	7,408235E+22	7,143602E+22	7,143462E+22	1,481643E+23	1,428706E+23	2,910349E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1019	7,408389E+22	7,408491E+22	7,143549E+22	7,143527E+22	1,481688E+23	1,428708E+23	2,910396E+23
1020	7,408409E+22	7,408313E+22	7,143544E+22	7,143486E+22	1,481672E+23	1,428703E+23	2,910375E+23
1021	7,408118E+22	7,408301E+22	7,143652E+22	7,143620E+22	1,481642E+23	1,428727E+23	2,910369E+23
1022	7,408460E+22	7,408517E+22	7,143596E+22	7,143657E+22	1,481698E+23	1,428725E+23	2,910423E+23
1023	7,408324E+22	7,408279E+22	7,143645E+22	7,143613E+22	1,481660E+23	1,428726E+23	2,910386E+23
1024	7,408339E+22	7,408387E+22	7,143717E+22	7,143707E+22	1,481673E+23	1,428742E+23	2,910415E+23
1025	7,408700E+22	7,408494E+22	7,143669E+22	7,143697E+22	1,481719E+23	1,428737E+23	2,910456E+23
1026	7,408369E+22	7,408373E+22	7,143759E+22	7,143724E+22	1,481674E+23	1,428748E+23	2,910422E+23
1027	7,408477E+22	7,408694E+22	7,143731E+22	7,143806E+22	1,481717E+23	1,428754E+23	2,910471E+23
1028	7,408622E+22	7,408590E+22	7,143759E+22	7,143734E+22	1,481721E+23	1,428749E+23	2,910471E+23
1029	7,408317E+22	7,408425E+22	7,143887E+22	7,143783E+22	1,481674E+23	1,428767E+23	2,910441E+23
1030	7,408621E+22	7,408640E+22	7,143828E+22	7,143778E+22	1,481726E+23	1,428761E+23	2,910487E+23
1031	7,408529E+22	7,408401E+22	7,143792E+22	7,143705E+22	1,481693E+23	1,428750E+23	2,910443E+23
1032	7,408336E+22	7,408421E+22	7,143753E+22	7,143779E+22	1,481676E+23	1,428753E+23	2,910429E+23
1033	7,408647E+22	7,408594E+22	7,143622E+22	7,143741E+22	1,481724E+23	1,428736E+23	2,910460E+23
1034	7,408328E+22	7,408330E+22	7,143665E+22	7,143645E+22	1,481666E+23	1,428731E+23	2,910397E+23
1035	7,408343E+22	7,408516E+22	7,143638E+22	7,143617E+22	1,481686E+23	1,428726E+23	2,910411E+23
1036	7,408599E+22	7,408463E+22	7,143619E+22	7,143526E+22	1,481706E+23	1,428715E+23	2,910421E+23
1037	7,408241E+22	7,408223E+22	7,143694E+22	7,143592E+22	1,481646E+23	1,428729E+23	2,910375E+23
1038	7,408411E+22	7,408537E+22	7,143638E+22	7,143646E+22	1,481695E+23	1,428728E+23	2,910423E+23
1039	7,408406E+22	7,408393E+22	7,143631E+22	7,143617E+22	1,481680E+23	1,428725E+23	2,910405E+23
1040	7,408178E+22	7,408303E+22	7,143681E+22	7,143703E+22	1,481648E+23	1,428738E+23	2,910387E+23
1041	7,408593E+22	7,408548E+22	7,143655E+22	7,143714E+22	1,481714E+23	1,428737E+23	2,910451E+23
1042	7,408440E+22	7,408297E+22	7,143742E+22	7,143681E+22	1,481674E+23	1,428742E+23	2,910416E+23
1043	7,408394E+22	7,408505E+22	7,143754E+22	7,143750E+22	1,481690E+23	1,428750E+23	2,910440E+23
1044	7,408728E+22	7,408668E+22	7,143744E+22	7,143772E+22	1,481740E+23	1,428752E+23	2,910491E+23
1045	7,408382E+22	7,408430E+22	7,143860E+22	7,143843E+22	1,481681E+23	1,428770E+23	2,910452E+23
1046	7,408510E+22	7,408729E+22	7,143890E+22	7,143859E+22	1,481724E+23	1,428775E+23	2,910499E+23
1047	7,408660E+22	7,408616E+22	7,143913E+22	7,143804E+22	1,481728E+23	1,428772E+23	2,910499E+23
1048	7,408392E+22	7,408389E+22	7,143936E+22	7,143867E+22	1,481678E+23	1,428780E+23	2,910458E+23
1049	7,408709E+22	7,408671E+22	7,143846E+22	7,143885E+22	1,481738E+23	1,428773E+23	2,910511E+23
1050	7,408556E+22	7,408448E+22	7,143824E+22	7,143830E+22	1,481700E+23	1,428765E+23	2,910466E+23
1051	7,408345E+22	7,408529E+22	7,143745E+22	7,143817E+22	1,481687E+23	1,428756E+23	2,910444E+23
1052	7,408703E+22	7,408681E+22	7,143692E+22	7,143741E+22	1,481738E+23	1,428743E+23	2,910482E+23
1053	7,408406E+22	7,408311E+22	7,143768E+22	7,143680E+22	1,481672E+23	1,428745E+23	2,910416E+23
1054	7,408419E+22	7,408531E+22	7,143763E+22	7,143633E+22	1,481695E+23	1,428740E+23	2,910435E+23
1055	7,408602E+22	7,408539E+22	7,143725E+22	7,143619E+22	1,481714E+23	1,428734E+23	2,910449E+23
1056	7,408241E+22	7,408278E+22	7,143714E+22	7,143725E+22	1,481652E+23	1,428744E+23	2,910396E+23
1057	7,408449E+22	7,408596E+22	7,143679E+22	7,143763E+22	1,481705E+23	1,428744E+23	2,910449E+23
1058	7,408448E+22	7,408402E+22	7,143740E+22	7,143726E+22	1,481685E+23	1,428747E+23	2,910432E+23
1059	7,408257E+22	7,408363E+22	7,143733E+22	7,143734E+22	1,481662E+23	1,428747E+23	2,910409E+23
1060	7,408706E+22	7,408621E+22	7,143739E+22	7,143761E+22	1,481733E+23	1,428750E+23	2,910483E+23
1061	7,408520E+22	7,408342E+22	7,143822E+22	7,143797E+22	1,481686E+23	1,428762E+23	2,910448E+23
1062	7,408436E+22	7,408610E+22	7,143848E+22	7,143827E+22	1,481705E+23	1,428767E+23	2,910472E+23
1063	7,408722E+22	7,408779E+22	7,143870E+22	7,143859E+22	1,481750E+23	1,428773E+23	2,910523E+23
1064	7,408429E+22	7,408435E+22	7,143941E+22	7,143916E+22	1,481686E+23	1,428786E+23	2,910472E+23
1065	7,408605E+22	7,408725E+22	7,143983E+22	7,143924E+22	1,481733E+23	1,428791E+23	2,910524E+23
1066	7,408728E+22	7,408604E+22	7,144010E+22	7,143912E+22	1,481733E+23	1,428792E+23	2,910525E+23
1067	7,408427E+22	7,408473E+22	7,143927E+22	7,143937E+22	1,481690E+23	1,428786E+23	2,910476E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1068	7,408748E+22	7,408795E+22	7,143866E+22	7,143960E+22	1,481754E+23	1,428783E+23	2,910537E+23
1069	7,408594E+22	7,408492E+22	7,143878E+22	7,143910E+22	1,481709E+23	1,428779E+23	2,910487E+23
1070	7,408403E+22	7,408576E+22	7,143862E+22	7,143814E+22	1,481698E+23	1,428768E+23	2,910465E+23
1071	7,408744E+22	7,408741E+22	7,143834E+22	7,143765E+22	1,481748E+23	1,428760E+23	2,910508E+23
1072	7,408462E+22	7,408301E+22	7,143828E+22	7,143755E+22	1,481676E+23	1,428758E+23	2,910435E+23
1073	7,408451E+22	7,408576E+22	7,143817E+22	7,143753E+22	1,481703E+23	1,428757E+23	2,910460E+23
1074	7,408583E+22	7,408586E+22	7,143785E+22	7,143777E+22	1,481717E+23	1,428756E+23	2,910473E+23
1075	7,408237E+22	7,408344E+22	7,143721E+22	7,143795E+22	1,481658E+23	1,428752E+23	2,910410E+23
1076	7,408539E+22	7,408638E+22	7,143753E+22	7,143803E+22	1,481718E+23	1,428756E+23	2,910473E+23
1077	7,408573E+22	7,408378E+22	7,143822E+22	7,143784E+22	1,481695E+23	1,428761E+23	2,910456E+23
1078	7,408379E+22	7,408415E+22	7,143830E+22	7,143754E+22	1,481679E+23	1,428758E+23	2,910438E+23
1079	7,408744E+22	7,408756E+22	7,143841E+22	7,143833E+22	1,481750E+23	1,428767E+23	2,910517E+23
1080	7,408538E+22	7,408439E+22	7,143876E+22	7,143903E+22	1,481698E+23	1,428778E+23	2,910476E+23
1081	7,408463E+22	7,408696E+22	7,143960E+22	7,143923E+22	1,481716E+23	1,428788E+23	2,910504E+23
1082	7,408737E+22	7,408799E+22	7,144030E+22	7,143977E+22	1,481754E+23	1,428801E+23	2,910554E+23
1083	7,408476E+22	7,408468E+22	7,144020E+22	7,143987E+22	1,481694E+23	1,428801E+23	2,910495E+23
1084	7,408700E+22	7,408755E+22	7,144055E+22	7,144022E+22	1,481745E+23	1,428808E+23	2,910553E+23
1085	7,408789E+22	7,408620E+22	7,144044E+22	7,144059E+22	1,481741E+23	1,428810E+23	2,910551E+23
1086	7,408484E+22	7,408562E+22	7,143955E+22	7,144003E+22	1,481705E+23	1,428796E+23	2,910500E+23
1087	7,408772E+22	7,408885E+22	7,143941E+22	7,143993E+22	1,481766E+23	1,428793E+23	2,910559E+23
1088	7,408663E+22	7,408507E+22	7,143933E+22	7,143921E+22	1,481717E+23	1,428785E+23	2,910502E+23
1089	7,408494E+22	7,408591E+22	7,143947E+22	7,143820E+22	1,481708E+23	1,428777E+23	2,910485E+23
1090	7,408752E+22	7,408755E+22	7,143938E+22	7,143851E+22	1,481751E+23	1,428779E+23	2,910530E+23
1091	7,408437E+22	7,408391E+22	7,143843E+22	7,143838E+22	1,481683E+23	1,428768E+23	2,910451E+23
1092	7,408455E+22	7,408652E+22	7,143861E+22	7,143863E+22	1,481711E+23	1,428772E+23	2,910483E+23
1093	7,408609E+22	7,408582E+22	7,143865E+22	7,143895E+22	1,481719E+23	1,428776E+23	2,910495E+23
1094	7,408333E+22	7,408365E+22	7,143817E+22	7,143819E+22	1,481670E+23	1,428764E+23	2,910433E+23
1095	7,408633E+22	7,408684E+22	7,143870E+22	7,143838E+22	1,481732E+23	1,428771E+23	2,910503E+23
1096	7,408677E+22	7,408411E+22	7,143870E+22	7,143860E+22	1,481709E+23	1,428773E+23	2,910482E+23
1097	7,408444E+22	7,408516E+22	7,143898E+22	7,143854E+22	1,481696E+23	1,428775E+23	2,910471E+23
1098	7,408723E+22	7,408861E+22	7,143947E+22	7,143978E+22	1,481758E+23	1,428793E+23	2,910551E+23
1099	7,408532E+22	7,408535E+22	7,143949E+22	7,143980E+22	1,481707E+23	1,428793E+23	2,910500E+23
1100	7,408535E+22	7,408731E+22	7,144082E+22	7,144001E+22	1,481727E+23	1,428808E+23	2,910535E+23
1101	7,408826E+22	7,408765E+22	7,144137E+22	7,144089E+22	1,481759E+23	1,428823E+23	2,910582E+23
1102	7,408577E+22	7,408502E+22	7,144089E+22	7,144055E+22	1,481708E+23	1,428814E+23	2,910522E+23
1103	7,408747E+22	7,408861E+22	7,144114E+22	7,144112E+22	1,481761E+23	1,428823E+23	2,910583E+23
1104	7,408838E+22	7,408686E+22	7,144043E+22	7,144137E+22	1,481752E+23	1,428818E+23	2,910570E+23
1105	7,408542E+22	7,408632E+22	7,144030E+22	7,144031E+22	1,481717E+23	1,428806E+23	2,910523E+23
1106	7,408794E+22	7,408920E+22	7,144067E+22	7,144035E+22	1,481771E+23	1,428810E+23	2,910582E+23
1107	7,408685E+22	7,408547E+22	7,144001E+22	7,143935E+22	1,481723E+23	1,428794E+23	2,910517E+23
1108	7,408537E+22	7,408626E+22	7,144031E+22	7,143906E+22	1,481716E+23	1,428794E+23	2,910510E+23
1109	7,408745E+22	7,408765E+22	7,143990E+22	7,144005E+22	1,481751E+23	1,428800E+23	2,910550E+23
1110	7,408455E+22	7,408445E+22	7,143886E+22	7,143927E+22	1,481690E+23	1,428781E+23	2,910471E+23
1111	7,408493E+22	7,408690E+22	7,143944E+22	7,143919E+22	1,481718E+23	1,428786E+23	2,910505E+23
1112	7,408715E+22	7,408558E+22	7,143906E+22	7,143933E+22	1,481727E+23	1,428784E+23	2,910511E+23
1113	7,408469E+22	7,408396E+22	7,143892E+22	7,143839E+22	1,481687E+23	1,428773E+23	2,910460E+23
1114	7,408680E+22	7,408759E+22	7,143962E+22	7,143928E+22	1,481744E+23	1,428789E+23	2,910533E+23
1115	7,408671E+22	7,408566E+22	7,143906E+22	7,143938E+22	1,481724E+23	1,428784E+23	2,910508E+23
1116	7,408461E+22	7,408640E+22	7,143996E+22	7,143969E+22	1,481710E+23	1,428797E+23	2,910507E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1117	7,408724E+22	7,408888E+22	7,144092E+22	7,144115E+22	1,481761E+23	1,428821E+23	2,910582E+23
1118	7,408611E+22	7,408562E+22	7,144092E+22	7,144052E+22	1,481717E+23	1,428814E+23	2,910532E+23
1119	7,408623E+22	7,408739E+22	7,144215E+22	7,144087E+22	1,481736E+23	1,428830E+23	2,910566E+23
1120	7,408926E+22	7,408763E+22	7,144169E+22	7,144207E+22	1,481769E+23	1,428838E+23	2,910606E+23
1121	7,408668E+22	7,408579E+22	7,144104E+22	7,144143E+22	1,481725E+23	1,428825E+23	2,910549E+23
1122	7,408753E+22	7,408941E+22	7,144162E+22	7,144205E+22	1,481769E+23	1,428837E+23	2,910606E+23
1123	7,408857E+22	7,408778E+22	7,144077E+22	7,144135E+22	1,481763E+23	1,428821E+23	2,910585E+23
1124	7,408625E+22	7,408668E+22	7,144125E+22	7,144039E+22	1,481729E+23	1,428816E+23	2,910546E+23
1125	7,408832E+22	7,408903E+22	7,144178E+22	7,144099E+22	1,481774E+23	1,428828E+23	2,910601E+23
1126	7,408723E+22	7,408598E+22	7,144077E+22	7,143991E+22	1,481732E+23	1,428807E+23	2,910539E+23
1127	7,408525E+22	7,408699E+22	7,144106E+22	7,144005E+22	1,481722E+23	1,428811E+23	2,910534E+23
1128	7,408758E+22	7,408784E+22	7,144012E+22	7,144116E+22	1,481754E+23	1,428813E+23	2,910567E+23
1129	7,408527E+22	7,408470E+22	7,143957E+22	7,143981E+22	1,481700E+23	1,428794E+23	2,910493E+23
1130	7,408551E+22	7,408708E+22	7,144043E+22	7,143991E+22	1,481726E+23	1,428803E+23	2,910529E+23
1131	7,408787E+22	7,408619E+22	7,143948E+22	7,143964E+22	1,481741E+23	1,428791E+23	2,910532E+23
1132	7,408554E+22	7,408485E+22	7,143964E+22	7,143932E+22	1,481704E+23	1,428790E+23	2,910493E+23
1133	7,408682E+22	7,408840E+22	7,144046E+22	7,144071E+22	1,481752E+23	1,428812E+23	2,910564E+23
1134	7,408693E+22	7,408667E+22	7,144006E+22	7,144023E+22	1,481736E+23	1,428803E+23	2,910539E+23
1135	7,408503E+22	7,408690E+22	7,144153E+22	7,144042E+22	1,481719E+23	1,428819E+23	2,910539E+23
1136	7,408823E+22	7,408849E+22	7,144177E+22	7,144191E+22	1,481767E+23	1,428837E+23	2,910604E+23
1137	7,408739E+22	7,408563E+22	7,144179E+22	7,144117E+22	1,481730E+23	1,428830E+23	2,910560E+23
1138	7,408676E+22	7,408796E+22	7,144274E+22	7,144209E+22	1,481747E+23	1,428848E+23	2,910595E+23
1139	7,408943E+22	7,408882E+22	7,144160E+22	7,144275E+22	1,481782E+23	1,428844E+23	2,910626E+23
1140	7,408723E+22	7,408693E+22	7,144162E+22	7,144212E+22	1,481742E+23	1,428837E+23	2,910579E+23
1141	7,408777E+22	7,408980E+22	7,144275E+22	7,144266E+22	1,481776E+23	1,428854E+23	2,910630E+23
1142	7,408924E+22	7,408828E+22	7,144200E+22	7,144143E+22	1,481775E+23	1,428834E+23	2,910609E+23
1143	7,408673E+22	7,408697E+22	7,144263E+22	7,144093E+22	1,481737E+23	1,428836E+23	2,910573E+23
1144	7,408855E+22	7,408899E+22	7,144218E+22	7,144219E+22	1,481775E+23	1,428844E+23	2,910619E+23
1145	7,408749E+22	7,408647E+22	7,144114E+22	7,144105E+22	1,481740E+23	1,428822E+23	2,910562E+23
1146	7,408515E+22	7,408732E+22	7,144152E+22	7,144128E+22	1,481725E+23	1,428828E+23	2,910553E+23
1147	7,408798E+22	7,408813E+22	7,144033E+22	7,144137E+22	1,481761E+23	1,428817E+23	2,910578E+23
1148	7,408658E+22	7,408496E+22	7,144015E+22	7,144004E+22	1,481715E+23	1,428802E+23	2,910517E+23
1149	7,408626E+22	7,408727E+22	7,144123E+22	7,144055E+22	1,481735E+23	1,428818E+23	2,910553E+23
1150	7,408853E+22	7,408737E+22	7,144017E+22	7,144010E+22	1,481759E+23	1,428803E+23	2,910562E+23
1151	7,408567E+22	7,408604E+22	7,144075E+22	7,144015E+22	1,481717E+23	1,428809E+23	2,910526E+23
1152	7,408686E+22	7,408883E+22	7,144138E+22	7,144178E+22	1,481757E+23	1,428832E+23	2,910589E+23
1153	7,408761E+22	7,408696E+22	7,144144E+22	7,144094E+22	1,481746E+23	1,428824E+23	2,910569E+23
1154	7,408550E+22	7,408682E+22	7,144284E+22	7,144155E+22	1,481723E+23	1,428844E+23	2,910567E+23
1155	7,408892E+22	7,408874E+22	7,144227E+22	7,144271E+22	1,481777E+23	1,428850E+23	2,910626E+23
1156	7,408843E+22	7,408638E+22	7,144207E+22	7,144241E+22	1,481748E+23	1,428845E+23	2,910593E+23
1157	7,408703E+22	7,408877E+22	7,144308E+22	7,144345E+22	1,481758E+23	1,428865E+23	2,910623E+23
1158	7,408998E+22	7,408997E+22	7,144218E+22	7,144311E+22	1,481800E+23	1,428853E+23	2,910652E+23
1159	7,408785E+22	7,408760E+22	7,144298E+22	7,144218E+22	1,481754E+23	1,428852E+23	2,910606E+23
1160	7,408849E+22	7,408971E+22	7,144368E+22	7,144296E+22	1,481782E+23	1,428866E+23	2,910648E+23
1161	7,408999E+22	7,408851E+22	7,144302E+22	7,144190E+22	1,481785E+23	1,428849E+23	2,910634E+23
1162	7,408657E+22	7,408746E+22	7,144335E+22	7,144227E+22	1,481740E+23	1,428856E+23	2,910596E+23
1163	7,408825E+22	7,408969E+22	7,144218E+22	7,144310E+22	1,481779E+23	1,428853E+23	2,910632E+23
1164	7,408794E+22	7,408699E+22	7,144156E+22	7,144200E+22	1,481749E+23	1,428836E+23	2,910585E+23
1165	7,408564E+22	7,408732E+22	7,144229E+22	7,144203E+22	1,481730E+23	1,428843E+23	2,910573E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1166	7,408907E+22	7,408844E+22	7,144110E+22	7,144139E+22	1,481775E+23	1,428825E+23	2,910600E+23
1167	7,408753E+22	7,408556E+22	7,144128E+22	7,144036E+22	1,481731E+23	1,428816E+23	2,910547E+23
1168	7,408674E+22	7,408776E+22	7,144161E+22	7,144140E+22	1,481745E+23	1,428830E+23	2,910575E+23
1169	7,408877E+22	7,408829E+22	7,144093E+22	7,144098E+22	1,481771E+23	1,428819E+23	2,910590E+23
1170	7,408549E+22	7,408665E+22	7,144187E+22	7,144138E+22	1,481721E+23	1,428833E+23	2,910554E+23
1171	7,408709E+22	7,408897E+22	7,144215E+22	7,144230E+22	1,481761E+23	1,428844E+23	2,910605E+23
1172	7,408877E+22	7,408708E+22	7,144231E+22	7,144182E+22	1,481759E+23	1,428841E+23	2,910600E+23
1173	7,408628E+22	7,408697E+22	7,144351E+22	7,144279E+22	1,481733E+23	1,428863E+23	2,910596E+23
1174	7,408969E+22	7,408983E+22	7,144264E+22	7,144348E+22	1,481795E+23	1,428861E+23	2,910656E+23
1175	7,408892E+22	7,408775E+22	7,144291E+22	7,144311E+22	1,481767E+23	1,428860E+23	2,910627E+23
1176	7,408749E+22	7,408939E+22	7,144379E+22	7,144409E+22	1,481769E+23	1,428879E+23	2,910648E+23
1177	7,409079E+22	7,409051E+22	7,144358E+22	7,144336E+22	1,481813E+23	1,428869E+23	2,910682E+23
1178	7,408819E+22	7,408783E+22	7,144441E+22	7,144305E+22	1,481760E+23	1,428875E+23	2,910635E+23
1179	7,408861E+22	7,408993E+22	7,144432E+22	7,144369E+22	1,481785E+23	1,428880E+23	2,910665E+23
1180	7,409041E+22	7,408907E+22	7,144334E+22	7,144330E+22	1,481795E+23	1,428866E+23	2,910661E+23
1181	7,408645E+22	7,408774E+22	7,144363E+22	7,144376E+22	1,481742E+23	1,428874E+23	2,910616E+23
1182	7,408882E+22	7,409014E+22	7,144255E+22	7,144349E+22	1,481790E+23	1,428860E+23	2,910650E+23
1183	7,408897E+22	7,408717E+22	7,144241E+22	7,144191E+22	1,481761E+23	1,428843E+23	2,910605E+23
1184	7,408671E+22	7,408719E+22	7,144268E+22	7,144214E+22	1,481739E+23	1,428848E+23	2,910587E+23
1185	7,409005E+22	7,408906E+22	7,144179E+22	7,144155E+22	1,481791E+23	1,428833E+23	2,910624E+23
1186	7,408737E+22	7,408658E+22	7,144202E+22	7,144140E+22	1,481740E+23	1,428834E+23	2,910574E+23
1187	7,408626E+22	7,408877E+22	7,144214E+22	7,144216E+22	1,481750E+23	1,428843E+23	2,910593E+23
1188	7,408903E+22	7,408899E+22	7,144190E+22	7,144209E+22	1,481780E+23	1,428840E+23	2,910620E+23
1189	7,408576E+22	7,408663E+22	7,144314E+22	7,144263E+22	1,481724E+23	1,428858E+23	2,910582E+23
1190	7,408810E+22	7,408916E+22	7,144312E+22	7,144299E+22	1,481773E+23	1,428861E+23	2,910634E+23
1191	7,408981E+22	7,408757E+22	7,144331E+22	7,144274E+22	1,481774E+23	1,428860E+23	2,910634E+23
1192	7,408704E+22	7,408759E+22	7,144365E+22	7,144404E+22	1,481746E+23	1,428877E+23	2,910623E+23
1193	7,409044E+22	7,409086E+22	7,144328E+22	7,144423E+22	1,481813E+23	1,428875E+23	2,910688E+23
1194	7,408919E+22	7,408861E+22	7,144405E+22	7,144387E+22	1,481778E+23	1,428879E+23	2,910657E+23
1195	7,408796E+22	7,408977E+22	7,144471E+22	7,144412E+22	1,481777E+23	1,428888E+23	2,910666E+23
1196	7,409170E+22	7,409087E+22	7,144457E+22	7,144405E+22	1,481826E+23	1,428886E+23	2,910712E+23
1197	7,408842E+22	7,408809E+22	7,144527E+22	7,144435E+22	1,481765E+23	1,428896E+23	2,910661E+23
1198	7,408879E+22	7,409062E+22	7,144469E+22	7,144458E+22	1,481794E+23	1,428893E+23	2,910687E+23
1199	7,409058E+22	7,408981E+22	7,144408E+22	7,144412E+22	1,481804E+23	1,428882E+23	2,910686E+23
1200	7,408699E+22	7,408777E+22	7,144388E+22	7,144435E+22	1,481748E+23	1,428882E+23	2,910630E+23
1201	7,408984E+22	7,409016E+22	7,144338E+22	7,144353E+22	1,481800E+23	1,428869E+23	2,910669E+23
1202	7,408953E+22	7,408753E+22	7,144331E+22	7,144242E+22	1,481771E+23	1,428857E+23	2,910628E+23
1203	7,408699E+22	7,408771E+22	7,144300E+22	7,144250E+22	1,481747E+23	1,428855E+23	2,910602E+23
1204	7,409028E+22	7,409014E+22	7,144215E+22	7,144270E+22	1,481804E+23	1,428849E+23	2,910653E+23
1205	7,408703E+22	7,408729E+22	7,144277E+22	7,144283E+22	1,481743E+23	1,428856E+23	2,910599E+23
1206	7,408651E+22	7,408920E+22	7,144312E+22	7,144274E+22	1,481757E+23	1,428859E+23	2,910616E+23
1207	7,408983E+22	7,408911E+22	7,144331E+22	7,144258E+22	1,481789E+23	1,428859E+23	2,910648E+23
1208	7,408686E+22	7,408639E+22	7,144372E+22	7,144346E+22	1,481732E+23	1,428872E+23	2,910604E+23
1209	7,408932E+22	7,408958E+22	7,144383E+22	7,144377E+22	1,481789E+23	1,428876E+23	2,910665E+23
1210	7,409013E+22	7,408874E+22	7,144391E+22	7,144398E+22	1,481789E+23	1,428879E+23	2,910668E+23
1211	7,408722E+22	7,408868E+22	7,144411E+22	7,144462E+22	1,481759E+23	1,428887E+23	2,910646E+23
1212	7,409115E+22	7,409184E+22	7,144429E+22	7,144497E+22	1,481830E+23	1,428893E+23	2,910722E+23
1213	7,408957E+22	7,408893E+22	7,144553E+22	7,144479E+22	1,481785E+23	1,428903E+23	2,910688E+23
1214	7,408864E+22	7,409016E+22	7,144594E+22	7,144470E+22	1,481788E+23	1,428906E+23	2,910694E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1215	7,409219E+22	7,409134E+22	7,144560E+22	7,144500E+22	1,481835E+23	1,428906E+23	2,910741E+23
1216	7,408860E+22	7,408836E+22	7,144531E+22	7,144576E+22	1,481770E+23	1,428911E+23	2,910680E+23
1217	7,408931E+22	7,409098E+22	7,144510E+22	7,144535E+22	1,481803E+23	1,428905E+23	2,910707E+23
1218	7,409089E+22	7,409005E+22	7,144471E+22	7,144470E+22	1,481809E+23	1,428894E+23	2,910703E+23
1219	7,408770E+22	7,408784E+22	7,144419E+22	7,144414E+22	1,481755E+23	1,428883E+23	2,910639E+23
1220	7,409090E+22	7,409066E+22	7,144376E+22	7,144386E+22	1,481816E+23	1,428876E+23	2,910692E+23
1221	7,408963E+22	7,408826E+22	7,144396E+22	7,144333E+22	1,481779E+23	1,428873E+23	2,910652E+23
1222	7,408693E+22	7,408887E+22	7,144362E+22	7,144312E+22	1,481758E+23	1,428867E+23	2,910625E+23
1223	7,409013E+22	7,409102E+22	7,144342E+22	7,144345E+22	1,481812E+23	1,428869E+23	2,910680E+23
1224	7,408732E+22	7,408728E+22	7,144374E+22	7,144384E+22	1,481746E+23	1,428876E+23	2,910622E+23
1225	7,408754E+22	7,408893E+22	7,144445E+22	7,144341E+22	1,481765E+23	1,428879E+23	2,910643E+23
1226	7,409053E+22	7,408921E+22	7,144440E+22	7,144375E+22	1,481797E+23	1,428882E+23	2,910679E+23
1227	7,408758E+22	7,408688E+22	7,144388E+22	7,144432E+22	1,481745E+23	1,428882E+23	2,910627E+23
1228	7,409007E+22	7,409078E+22	7,144396E+22	7,144510E+22	1,481809E+23	1,428891E+23	2,910699E+23
1229	7,409035E+22	7,408982E+22	7,144468E+22	7,144517E+22	1,481802E+23	1,428899E+23	2,910700E+23
1230	7,408791E+22	7,408942E+22	7,144520E+22	7,144478E+22	1,481773E+23	1,428900E+23	2,910673E+23
1231	7,409190E+22	7,409232E+22	7,144591E+22	7,144519E+22	1,481842E+23	1,428911E+23	2,910753E+23
1232	7,409030E+22	7,408902E+22	7,144633E+22	7,144566E+22	1,481793E+23	1,428920E+23	2,910713E+23
1233	7,408920E+22	7,409044E+22	7,144677E+22	7,144565E+22	1,481796E+23	1,428924E+23	2,910721E+23
1234	7,409195E+22	7,409213E+22	7,144622E+22	7,144638E+22	1,481841E+23	1,428926E+23	2,910767E+23
1235	7,408871E+22	7,408876E+22	7,144543E+22	7,144636E+22	1,481775E+23	1,428918E+23	2,910693E+23
1236	7,409014E+22	7,409136E+22	7,144551E+22	7,144596E+22	1,481815E+23	1,428915E+23	2,910730E+23
1237	7,409148E+22	7,409024E+22	7,144553E+22	7,144526E+22	1,481817E+23	1,428908E+23	2,910725E+23
1238	7,408848E+22	7,408831E+22	7,144491E+22	7,144422E+22	1,481768E+23	1,428891E+23	2,910659E+23
1239	7,409121E+22	7,409152E+22	7,144470E+22	7,144437E+22	1,481827E+23	1,428891E+23	2,910718E+23
1240	7,408958E+22	7,408888E+22	7,144433E+22	7,144448E+22	1,481785E+23	1,428888E+23	2,910673E+23
1241	7,408721E+22	7,408912E+22	7,144467E+22	7,144390E+22	1,481763E+23	1,428886E+23	2,910649E+23
1242	7,409026E+22	7,409109E+22	7,144464E+22	7,144430E+22	1,481813E+23	1,428889E+23	2,910703E+23
1243	7,408807E+22	7,408704E+22	7,144431E+22	7,144427E+22	1,481751E+23	1,428886E+23	2,910637E+23
1244	7,408882E+22	7,408925E+22	7,144478E+22	7,144444E+22	1,481781E+23	1,428892E+23	2,910673E+23
1245	7,409098E+22	7,408997E+22	7,144485E+22	7,144509E+22	1,481809E+23	1,428899E+23	2,910709E+23
1246	7,408803E+22	7,408829E+22	7,144438E+22	7,144497E+22	1,481763E+23	1,428893E+23	2,910657E+23
1247	7,409050E+22	7,409203E+22	7,144515E+22	7,144554E+22	1,481825E+23	1,428907E+23	2,910732E+23
1248	7,409084E+22	7,409027E+22	7,144583E+22	7,144587E+22	1,481811E+23	1,428917E+23	2,910728E+23
1249	7,408887E+22	7,408957E+22	7,144685E+22	7,144535E+22	1,481784E+23	1,428922E+23	2,910706E+23
1250	7,409212E+22	7,409261E+22	7,144726E+22	7,144638E+22	1,481847E+23	1,428936E+23	2,910784E+23
1251	7,409052E+22	7,408935E+22	7,144666E+22	7,144683E+22	1,481799E+23	1,428935E+23	2,910734E+23
1252	7,408968E+22	7,409114E+22	7,144678E+22	7,144713E+22	1,481808E+23	1,428939E+23	2,910747E+23
1253	7,409211E+22	7,409250E+22	7,144674E+22	7,144747E+22	1,481846E+23	1,428942E+23	2,910788E+23
1254	7,408961E+22	7,408912E+22	7,144603E+22	7,144620E+22	1,481787E+23	1,428922E+23	2,910710E+23
1255	7,409119E+22	7,409172E+22	7,144647E+22	7,144575E+22	1,481829E+23	1,428922E+23	2,910751E+23
1256	7,409219E+22	7,409059E+22	7,144600E+22	7,144570E+22	1,481828E+23	1,428917E+23	2,910745E+23
1257	7,408896E+22	7,408895E+22	7,144575E+22	7,144479E+22	1,481779E+23	1,428905E+23	2,910685E+23
1258	7,409061E+22	7,409248E+22	7,144570E+22	7,144543E+22	1,481831E+23	1,428911E+23	2,910742E+23
1259	7,408946E+22	7,408919E+22	7,144501E+22	7,144520E+22	1,481786E+23	1,428902E+23	2,910689E+23
1260	7,408785E+22	7,408918E+22	7,144545E+22	7,144495E+22	1,481770E+23	1,428904E+23	2,910674E+23
1261	7,409082E+22	7,409099E+22	7,144566E+22	7,144550E+22	1,481818E+23	1,428912E+23	2,910730E+23
1262	7,408908E+22	7,408739E+22	7,144476E+22	7,144485E+22	1,481765E+23	1,428896E+23	2,910661E+23
1263	7,408951E+22	7,409026E+22	7,144527E+22	7,144528E+22	1,481798E+23	1,428906E+23	2,910703E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1264	7,409140E+22	7,409099E+22	7,144503E+22	7,144616E+22	1,481824E+23	1,428912E+23	2,910736E+23
1265	7,408880E+22	7,408889E+22	7,144555E+22	7,144538E+22	1,481777E+23	1,428909E+23	2,910686E+23
1266	7,409077E+22	7,409256E+22	7,144681E+22	7,144599E+22	1,481833E+23	1,428928E+23	2,910761E+23
1267	7,409156E+22	7,409035E+22	7,144681E+22	7,144628E+22	1,481819E+23	1,428931E+23	2,910750E+23
1268	7,408971E+22	7,408998E+22	7,144753E+22	7,144661E+22	1,481797E+23	1,428941E+23	2,910738E+23
1269	7,409209E+22	7,409324E+22	7,144792E+22	7,144800E+22	1,481853E+23	1,428959E+23	2,910813E+23
1270	7,409078E+22	7,409023E+22	7,144705E+22	7,144764E+22	1,481810E+23	1,428947E+23	2,910757E+23
1271	7,409027E+22	7,409183E+22	7,144762E+22	7,144764E+22	1,481821E+23	1,428953E+23	2,910774E+23
1272	7,409293E+22	7,409262E+22	7,144739E+22	7,144795E+22	1,481855E+23	1,428953E+23	2,910809E+23
1273	7,409085E+22	7,408921E+22	7,144718E+22	7,144631E+22	1,481801E+23	1,428935E+23	2,910736E+23
1274	7,409144E+22	7,409232E+22	7,144750E+22	7,144634E+22	1,481838E+23	1,428938E+23	2,910776E+23
1275	7,409218E+22	7,409127E+22	7,144623E+22	7,144650E+22	1,481835E+23	1,428927E+23	2,910762E+23
1276	7,408909E+22	7,408979E+22	7,144603E+22	7,144612E+22	1,481789E+23	1,428922E+23	2,910710E+23
1277	7,409036E+22	7,409262E+22	7,144657E+22	7,144656E+22	1,481830E+23	1,428931E+23	2,910761E+23
1278	7,409007E+22	7,408922E+22	7,144581E+22	7,144545E+22	1,481793E+23	1,428913E+23	2,910706E+23
1279	7,408894E+22	7,408933E+22	7,144617E+22	7,144528E+22	1,481783E+23	1,428915E+23	2,910697E+23
1280	7,409162E+22	7,409117E+22	7,144587E+22	7,144637E+22	1,481828E+23	1,428922E+23	2,910750E+23
1281	7,408993E+22	7,408826E+22	7,144538E+22	7,144549E+22	1,481782E+23	1,428909E+23	2,910690E+23
1282	7,408949E+22	7,409150E+22	7,144622E+22	7,144600E+22	1,481810E+23	1,428922E+23	2,910732E+23
1283	7,409173E+22	7,409168E+22	7,144594E+22	7,144658E+22	1,481834E+23	1,428925E+23	2,910759E+23
1284	7,408967E+22	7,408942E+22	7,144676E+22	7,144626E+22	1,481791E+23	1,428930E+23	2,910721E+23
1285	7,409104E+22	7,409271E+22	7,144833E+22	7,144723E+22	1,481838E+23	1,428956E+23	2,910793E+23
1286	7,409210E+22	7,409083E+22	7,144773E+22	7,144727E+22	1,481829E+23	1,428950E+23	2,910779E+23
1287	7,409015E+22	7,409080E+22	7,144811E+22	7,144793E+22	1,481810E+23	1,428960E+23	2,910770E+23
1288	7,409244E+22	7,409372E+22	7,144815E+22	7,144936E+22	1,481862E+23	1,428975E+23	2,910837E+23
1289	7,409188E+22	7,409046E+22	7,144789E+22	7,144800E+22	1,481823E+23	1,428959E+23	2,910782E+23
1290	7,409098E+22	7,409223E+22	7,144867E+22	7,144776E+22	1,481832E+23	1,428964E+23	2,910796E+23
1291	7,409388E+22	7,409287E+22	7,144783E+22	7,144801E+22	1,481867E+23	1,428958E+23	2,910826E+23
1292	7,409156E+22	7,408998E+22	7,144756E+22	7,144712E+22	1,481815E+23	1,428947E+23	2,910762E+23
1293	7,409095E+22	7,409326E+22	7,144825E+22	7,144755E+22	1,481842E+23	1,428958E+23	2,910800E+23
1294	7,409196E+22	7,409209E+22	7,144683E+22	7,144706E+22	1,481840E+23	1,428939E+23	2,910779E+23
1295	7,408927E+22	7,409012E+22	7,144701E+22	7,144675E+22	1,481794E+23	1,428938E+23	2,910731E+23
1296	7,409091E+22	7,409231E+22	7,144730E+22	7,144737E+22	1,481832E+23	1,428947E+23	2,910779E+23
1297	7,409133E+22	7,408891E+22	7,144673E+22	7,144592E+22	1,481802E+23	1,428926E+23	2,910729E+23
1298	7,408944E+22	7,408987E+22	7,144685E+22	7,144607E+22	1,481793E+23	1,428929E+23	2,910722E+23
1299	7,409212E+22	7,409196E+22	7,144582E+22	7,144715E+22	1,481841E+23	1,428930E+23	2,910771E+23
1300	7,409052E+22	7,408937E+22	7,144575E+22	7,144644E+22	1,481799E+23	1,428922E+23	2,910721E+23
1301	7,408958E+22	7,409210E+22	7,144753E+22	7,144673E+22	1,481817E+23	1,428943E+23	2,910759E+23
1302	7,409238E+22	7,409213E+22	7,144720E+22	7,144676E+22	1,481845E+23	1,428940E+23	2,910785E+23
1303	7,409050E+22	7,408992E+22	7,144800E+22	7,144706E+22	1,481804E+23	1,428951E+23	2,910755E+23
1304	7,409145E+22	7,409305E+22	7,144899E+22	7,144872E+22	1,481845E+23	1,428977E+23	2,910822E+23
1305	7,409272E+22	7,409150E+22	7,144854E+22	7,144848E+22	1,481842E+23	1,428970E+23	2,910812E+23
1306	7,409033E+22	7,409172E+22	7,144895E+22	7,144892E+22	1,481820E+23	1,428979E+23	2,910799E+23
1307	7,409317E+22	7,409402E+22	7,144869E+22	7,144986E+22	1,481872E+23	1,428986E+23	2,910857E+23
1308	7,409313E+22	7,409101E+22	7,144861E+22	7,144858E+22	1,481841E+23	1,428972E+23	2,910813E+23
1309	7,409146E+22	7,409256E+22	7,144968E+22	7,144844E+22	1,481840E+23	1,428981E+23	2,910821E+23
1310	7,409415E+22	7,409367E+22	7,144841E+22	7,144846E+22	1,481878E+23	1,428969E+23	2,910847E+23
1311	7,409160E+22	7,409107E+22	7,144803E+22	7,144806E+22	1,481827E+23	1,428961E+23	2,910788E+23
1312	7,409067E+22	7,409346E+22	7,144874E+22	7,144863E+22	1,481841E+23	1,428974E+23	2,910815E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1313	7,409258E+22	7,409186E+22	7,144795E+22	7,144743E+22	1,481844E+23	1,428954E+23	2,910798E+23
1314	7,408986E+22	7,409001E+22	7,144797E+22	7,144702E+22	1,481799E+23	1,428950E+23	2,910749E+23
1315	7,409192E+22	7,409210E+22	7,144748E+22	7,144778E+22	1,481840E+23	1,428953E+23	2,910793E+23
1316	7,409228E+22	7,408973E+22	7,144674E+22	7,144683E+22	1,481820E+23	1,428936E+23	2,910756E+23
1317	7,408935E+22	7,409099E+22	7,144738E+22	7,144710E+22	1,481803E+23	1,428945E+23	2,910748E+23
1318	7,409222E+22	7,409315E+22	7,144660E+22	7,144750E+22	1,481854E+23	1,428941E+23	2,910795E+23
1319	7,409099E+22	7,409027E+22	7,144709E+22	7,144704E+22	1,481813E+23	1,428941E+23	2,910754E+23
1320	7,409001E+22	7,409219E+22	7,144892E+22	7,144777E+22	1,481822E+23	1,428967E+23	2,910789E+23
1321	7,409334E+22	7,409216E+22	7,144868E+22	7,144773E+22	1,481855E+23	1,428964E+23	2,910819E+23
1322	7,409076E+22	7,409056E+22	7,144900E+22	7,144845E+22	1,481813E+23	1,428974E+23	2,910788E+23
1323	7,409195E+22	7,409358E+22	7,144906E+22	7,145011E+22	1,481855E+23	1,428992E+23	2,910847E+23
1324	7,409360E+22	7,409220E+22	7,144879E+22	7,144962E+22	1,481858E+23	1,428984E+23	2,910842E+23
1325	7,409092E+22	7,409212E+22	7,144990E+22	7,144954E+22	1,481830E+23	1,428994E+23	2,910825E+23
1326	7,409421E+22	7,409445E+22	7,144939E+22	7,144962E+22	1,481887E+23	1,428990E+23	2,910877E+23
1327	7,409396E+22	7,409180E+22	7,144935E+22	7,144887E+22	1,481858E+23	1,428982E+23	2,910840E+23
1328	7,409151E+22	7,409323E+22	7,145028E+22	7,144936E+22	1,481847E+23	1,428996E+23	2,910844E+23
1329	7,409423E+22	7,409432E+22	7,144931E+22	7,144917E+22	1,481886E+23	1,428985E+23	2,910870E+23
1330	7,409129E+22	7,409165E+22	7,144916E+22	7,144880E+22	1,481829E+23	1,428980E+23	2,910809E+23
1331	7,409110E+22	7,409315E+22	7,144934E+22	7,144924E+22	1,481842E+23	1,428986E+23	2,910828E+23
1332	7,409358E+22	7,409177E+22	7,144854E+22	7,144822E+22	1,481854E+23	1,428968E+23	2,910821E+23
1333	7,409037E+22	7,409012E+22	7,144861E+22	7,144795E+22	1,481805E+23	1,428966E+23	2,910771E+23
1334	7,409240E+22	7,409288E+22	7,144756E+22	7,144835E+22	1,481853E+23	1,428959E+23	2,910812E+23
1335	7,409262E+22	7,409116E+22	7,144697E+22	7,144773E+22	1,481838E+23	1,428947E+23	2,910785E+23
1336	7,408947E+22	7,409165E+22	7,144816E+22	7,144794E+22	1,481811E+23	1,428961E+23	2,910772E+23
1337	7,409297E+22	7,409341E+22	7,144816E+22	7,144775E+22	1,481864E+23	1,428959E+23	2,910823E+23
1338	7,409155E+22	7,409067E+22	7,144867E+22	7,144758E+22	1,481822E+23	1,428962E+23	2,910785E+23
1339	7,409074E+22	7,409215E+22	7,144964E+22	7,144884E+22	1,481829E+23	1,428985E+23	2,910814E+23
1340	7,409401E+22	7,409295E+22	7,144917E+22	7,144930E+22	1,481870E+23	1,428985E+23	2,910854E+23
1341	7,409085E+22	7,409137E+22	7,144959E+22	7,144987E+22	1,481822E+23	1,428995E+23	2,910817E+23
1342	7,409244E+22	7,409428E+22	7,144963E+22	7,145061E+22	1,481867E+23	1,429002E+23	2,910870E+23
1343	7,409459E+22	7,409308E+22	7,144961E+22	7,145006E+22	1,481877E+23	1,428997E+23	2,910873E+23
1344	7,409172E+22	7,409230E+22	7,145090E+22	7,145010E+22	1,481840E+23	1,429010E+23	2,910850E+23
1345	7,409511E+22	7,409479E+22	7,145066E+22	7,145003E+22	1,481899E+23	1,429007E+23	2,910906E+23
1346	7,409394E+22	7,409280E+22	7,145031E+22	7,144972E+22	1,481867E+23	1,429000E+23	2,910868E+23
1347	7,409145E+22	7,409364E+22	7,145056E+22	7,145047E+22	1,481851E+23	1,429010E+23	2,910861E+23
1348	7,409451E+22	7,409467E+22	7,144986E+22	7,145015E+22	1,481892E+23	1,429000E+23	2,910892E+23
1349	7,409152E+22	7,409148E+22	7,145007E+22	7,144950E+22	1,481830E+23	1,428996E+23	2,910826E+23
1350	7,409193E+22	7,409303E+22	7,144975E+22	7,144938E+22	1,481850E+23	1,428991E+23	2,910841E+23
1351	7,409448E+22	7,409242E+22	7,144871E+22	7,144888E+22	1,481869E+23	1,428976E+23	2,910845E+23
1352	7,409062E+22	7,409090E+22	7,144885E+22	7,144891E+22	1,481815E+23	1,428978E+23	2,910793E+23
1353	7,409279E+22	7,409383E+22	7,144837E+22	7,144881E+22	1,481866E+23	1,428972E+23	2,910838E+23
1354	7,409262E+22	7,409219E+22	7,144835E+22	7,144815E+22	1,481848E+23	1,428965E+23	2,910813E+23
1355	7,409006E+22	7,409172E+22	7,144930E+22	7,144860E+22	1,481818E+23	1,428979E+23	2,910797E+23
1356	7,409381E+22	7,409350E+22	7,144934E+22	7,144874E+22	1,481873E+23	1,428981E+23	2,910854E+23
1357	7,409183E+22	7,409086E+22	7,144981E+22	7,144904E+22	1,481827E+23	1,428989E+23	2,910815E+23
1358	7,409115E+22	7,409274E+22	7,144987E+22	7,144997E+22	1,481839E+23	1,428998E+23	2,910837E+23
1359	7,409449E+22	7,409397E+22	7,144933E+22	7,145058E+22	1,481885E+23	1,428999E+23	2,910884E+23
1360	7,409144E+22	7,409178E+22	7,145026E+22	7,145072E+22	1,481832E+23	1,429010E+23	2,910842E+23
1361	7,409376E+22	7,409450E+22	7,145079E+22	7,145058E+22	1,481883E+23	1,429014E+23	2,910896E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1362	7,409543E+22	7,409383E+22	7,145088E+22	7,145014E+22	1,481893E+23	1,429010E+23	2,910903E+23
1363	7,409243E+22	7,409276E+22	7,145147E+22	7,145079E+22	1,481852E+23	1,429023E+23	2,910875E+23
1364	7,409526E+22	7,409580E+22	7,145130E+22	7,145114E+22	1,481911E+23	1,429024E+23	2,910935E+23
1365	7,409344E+22	7,409357E+22	7,145130E+22	7,145100E+22	1,481870E+23	1,429023E+23	2,910893E+23
1366	7,409145E+22	7,409386E+22	7,145127E+22	7,145108E+22	1,481853E+23	1,429023E+23	2,910877E+23
1367	7,409513E+22	7,409493E+22	7,145052E+22	7,145094E+22	1,481901E+23	1,429015E+23	2,910915E+23
1368	7,409229E+22	7,409122E+22	7,145070E+22	7,145032E+22	1,481835E+23	1,429010E+23	2,910845E+23
1369	7,409296E+22	7,409320E+22	7,145035E+22	7,144987E+22	1,481862E+23	1,429002E+23	2,910864E+23
1370	7,409476E+22	7,409361E+22	7,144921E+22	7,144947E+22	1,481884E+23	1,428987E+23	2,910871E+23
1371	7,409098E+22	7,409149E+22	7,144910E+22	7,144965E+22	1,481825E+23	1,428987E+23	2,910812E+23
1372	7,409326E+22	7,409441E+22	7,144939E+22	7,144929E+22	1,481877E+23	1,428987E+23	2,910863E+23
1373	7,409294E+22	7,409232E+22	7,144975E+22	7,144869E+22	1,481853E+23	1,428984E+23	2,910837E+23
1374	7,409061E+22	7,409168E+22	7,145015E+22	7,144907E+22	1,481823E+23	1,428992E+23	2,910815E+23
1375	7,409434E+22	7,409426E+22	7,144979E+22	7,145001E+22	1,481886E+23	1,428998E+23	2,910884E+23
1376	7,409200E+22	7,409144E+22	7,145025E+22	7,145054E+22	1,481834E+23	1,429008E+23	2,910842E+23
1377	7,409181E+22	7,409340E+22	7,145067E+22	7,145080E+22	1,481852E+23	1,429015E+23	2,910867E+23
1378	7,409507E+22	7,409491E+22	7,145052E+22	7,145100E+22	1,481900E+23	1,429015E+23	2,910915E+23
1379	7,409256E+22	7,409200E+22	7,145116E+22	7,145122E+22	1,481846E+23	1,429024E+23	2,910869E+23
1380	7,409481E+22	7,409502E+22	7,145193E+22	7,145119E+22	1,481898E+23	1,429031E+23	2,910930E+23
1381	7,409560E+22	7,409455E+22	7,145203E+22	7,145128E+22	1,481901E+23	1,429033E+23	2,910935E+23
1382	7,409237E+22	7,409361E+22	7,145191E+22	7,145184E+22	1,481860E+23	1,429038E+23	2,910897E+23
1383	7,409522E+22	7,409674E+22	7,145168E+22	7,145243E+22	1,481920E+23	1,429041E+23	2,910961E+23
1384	7,409366E+22	7,409347E+22	7,145216E+22	7,145196E+22	1,481871E+23	1,429041E+23	2,910913E+23
1385	7,409262E+22	7,409349E+22	7,145219E+22	7,145124E+22	1,481861E+23	1,429034E+23	2,910895E+23
1386	7,409599E+22	7,409518E+22	7,145131E+22	7,145113E+22	1,481912E+23	1,429024E+23	2,910936E+23
1387	7,409321E+22	7,409157E+22	7,145073E+22	7,145094E+22	1,481848E+23	1,429017E+23	2,910864E+23
1388	7,409344E+22	7,409417E+22	7,145058E+22	7,145045E+22	1,481876E+23	1,429010E+23	2,910886E+23
1389	7,409450E+22	7,409457E+22	7,145013E+22	7,145014E+22	1,481891E+23	1,429003E+23	2,910893E+23
1390	7,409112E+22	7,409199E+22	7,144997E+22	7,144988E+22	1,481831E+23	1,428999E+23	2,910830E+23
1391	7,409360E+22	7,409483E+22	7,145036E+22	7,145006E+22	1,481884E+23	1,429004E+23	2,910889E+23
1392	7,409332E+22	7,409218E+22	7,145094E+22	7,144992E+22	1,481855E+23	1,429009E+23	2,910864E+23
1393	7,409138E+22	7,409184E+22	7,145094E+22	7,145015E+22	1,481832E+23	1,429011E+23	2,910843E+23
1394	7,409459E+22	7,409526E+22	7,145039E+22	7,145115E+22	1,481898E+23	1,429015E+23	2,910914E+23
1395	7,409275E+22	7,409195E+22	7,145044E+22	7,145159E+22	1,481847E+23	1,429020E+23	2,910867E+23
1396	7,409290E+22	7,409392E+22	7,145152E+22	7,145123E+22	1,481868E+23	1,429027E+23	2,910896E+23
1397	7,409586E+22	7,409542E+22	7,145184E+22	7,145142E+22	1,481913E+23	1,429033E+23	2,910945E+23
1398	7,409336E+22	7,409257E+22	7,145198E+22	7,145156E+22	1,481859E+23	1,429035E+23	2,910895E+23
1399	7,409510E+22	7,409627E+22	7,145256E+22	7,145232E+22	1,481914E+23	1,429049E+23	2,910963E+23
1400	7,409543E+22	7,409532E+22	7,145294E+22	7,145270E+22	1,481907E+23	1,429056E+23	2,910964E+23
1401	7,409265E+22	7,409401E+22	7,145299E+22	7,145268E+22	1,481867E+23	1,429057E+23	2,910923E+23
1402	7,409557E+22	7,409716E+22	7,145291E+22	7,145295E+22	1,481927E+23	1,429059E+23	2,910986E+23
1403	7,409477E+22	7,409305E+22	7,145270E+22	7,145262E+22	1,481878E+23	1,429053E+23	2,910931E+23
1404	7,409379E+22	7,409353E+22	7,145276E+22	7,145179E+22	1,481873E+23	1,429046E+23	2,910919E+23
1405	7,409634E+22	7,409580E+22	7,145173E+22	7,145191E+22	1,481921E+23	1,429036E+23	2,910958E+23
1406	7,409325E+22	7,409247E+22	7,145064E+22	7,145143E+22	1,481857E+23	1,429021E+23	2,910878E+23
1407	7,409345E+22	7,409533E+22	7,145089E+22	7,145110E+22	1,481888E+23	1,429020E+23	2,910908E+23
1408	7,409465E+22	7,409468E+22	7,145126E+22	7,145068E+22	1,481893E+23	1,429019E+23	2,910913E+23
1409	7,409194E+22	7,409187E+22	7,145123E+22	7,145016E+22	1,481838E+23	1,429014E+23	2,910852E+23
1410	7,409404E+22	7,409525E+22	7,145145E+22	7,145068E+22	1,481893E+23	1,429021E+23	2,910914E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1411	7,409390E+22	7,409245E+22	7,145121E+22	7,145124E+22	1,481863E+23	1,429025E+23	2,910888E+23
1412	7,409192E+22	7,409262E+22	7,145138E+22	7,145127E+22	1,481845E+23	1,429026E+23	2,910872E+23
1413	7,409483E+22	7,409599E+22	7,145135E+22	7,145211E+22	1,481908E+23	1,429035E+23	2,910943E+23
1414	7,409351E+22	7,409254E+22	7,145122E+22	7,145190E+22	1,481860E+23	1,429031E+23	2,910892E+23
1415	7,409388E+22	7,409476E+22	7,145237E+22	7,145188E+22	1,481886E+23	1,429043E+23	2,910929E+23
1416	7,409648E+22	7,409581E+22	7,145315E+22	7,145246E+22	1,481923E+23	1,429056E+23	2,910979E+23
1417	7,409398E+22	7,409330E+22	7,145301E+22	7,145257E+22	1,481873E+23	1,429056E+23	2,910929E+23
1418	7,409497E+22	7,409737E+22	7,145354E+22	7,145341E+22	1,481923E+23	1,429069E+23	2,910993E+23
1419	7,409587E+22	7,409549E+22	7,145354E+22	7,145388E+22	1,481914E+23	1,429074E+23	2,910988E+23
1420	7,409368E+22	7,409384E+22	7,145380E+22	7,145314E+22	1,481875E+23	1,429069E+23	2,910945E+23
1421	7,409631E+22	7,409703E+22	7,145378E+22	7,145340E+22	1,481933E+23	1,429072E+23	2,911005E+23
1422	7,409559E+22	7,409343E+22	7,145268E+22	7,145285E+22	1,481890E+23	1,429055E+23	2,910945E+23
1423	7,409416E+22	7,409477E+22	7,145252E+22	7,145255E+22	1,481889E+23	1,429051E+23	2,910940E+23
1424	7,409616E+22	7,409672E+22	7,145232E+22	7,145276E+22	1,481929E+23	1,429051E+23	2,910980E+23
1425	7,409348E+22	7,409317E+22	7,145165E+22	7,145172E+22	1,481867E+23	1,429034E+23	2,910900E+23
1426	7,409349E+22	7,409592E+22	7,145238E+22	7,145132E+22	1,481894E+23	1,429037E+23	2,910931E+23
1427	7,409531E+22	7,409441E+22	7,145223E+22	7,145155E+22	1,481897E+23	1,429038E+23	2,910935E+23
1428	7,409274E+22	7,409177E+22	7,145214E+22	7,145115E+22	1,481845E+23	1,429033E+23	2,910878E+23
1429	7,409421E+22	7,409568E+22	7,145212E+22	7,145209E+22	1,481899E+23	1,429042E+23	2,910941E+23
1430	7,409423E+22	7,409318E+22	7,145114E+22	7,145226E+22	1,481874E+23	1,429034E+23	2,910908E+23
1431	7,409258E+22	7,409364E+22	7,145159E+22	7,145215E+22	1,481862E+23	1,429037E+23	2,910900E+23
1432	7,409569E+22	7,409625E+22	7,145252E+22	7,145263E+22	1,481919E+23	1,429051E+23	2,910971E+23
1433	7,409476E+22	7,409298E+22	7,145247E+22	7,145205E+22	1,481877E+23	1,429045E+23	2,910923E+23
1434	7,409445E+22	7,409586E+22	7,145369E+22	7,145238E+22	1,481903E+23	1,429061E+23	2,910964E+23
1435	7,409687E+22	7,409649E+22	7,145378E+22	7,145378E+22	1,481934E+23	1,429076E+23	2,911009E+23
1436	7,409422E+22	7,409404E+22	7,145399E+22	7,145374E+22	1,481883E+23	1,429077E+23	2,910960E+23
1437	7,409495E+22	7,409777E+22	7,145472E+22	7,145446E+22	1,481927E+23	1,429092E+23	2,911019E+23
1438	7,409639E+22	7,409549E+22	7,145408E+22	7,145444E+22	1,481919E+23	1,429085E+23	2,911004E+23
1439	7,409463E+22	7,409425E+22	7,145408E+22	7,145393E+22	1,481889E+23	1,429080E+23	2,910969E+23
1440	7,409699E+22	7,409713E+22	7,145437E+22	7,145430E+22	1,481941E+23	1,429087E+23	2,911028E+23
1441	7,409614E+22	7,409433E+22	7,145297E+22	7,145338E+22	1,481905E+23	1,429063E+23	2,910968E+23
1442	7,409410E+22	7,409610E+22	7,145315E+22	7,145290E+22	1,481902E+23	1,429060E+23	2,910962E+23
1443	7,409644E+22	7,409696E+22	7,145301E+22	7,145329E+22	1,481934E+23	1,429063E+23	2,910997E+23
1444	7,409420E+22	7,409308E+22	7,145293E+22	7,145195E+22	1,481873E+23	1,429049E+23	2,910922E+23
1445	7,409380E+22	7,409575E+22	7,145363E+22	7,145201E+22	1,481896E+23	1,429056E+23	2,910952E+23
1446	7,409567E+22	7,409457E+22	7,145250E+22	7,145242E+22	1,481902E+23	1,429049E+23	2,910952E+23
1447	7,409311E+22	7,409278E+22	7,145198E+22	7,145249E+22	1,481859E+23	1,429045E+23	2,910904E+23
1448	7,409443E+22	7,409621E+22	7,145275E+22	7,145332E+22	1,481906E+23	1,429061E+23	2,910967E+23
1449	7,409506E+22	7,409394E+22	7,145198E+22	7,145266E+22	1,481890E+23	1,429046E+23	2,910937E+23
1450	7,409336E+22	7,409450E+22	7,145295E+22	7,145229E+22	1,481879E+23	1,429052E+23	2,910931E+23
1451	7,409674E+22	7,409650E+22	7,145363E+22	7,145343E+22	1,481932E+23	1,429071E+23	2,911003E+23
1452	7,409565E+22	7,409350E+22	7,145366E+22	7,145294E+22	1,481892E+23	1,429066E+23	2,910958E+23
1453	7,409426E+22	7,409669E+22	7,145473E+22	7,145384E+22	1,481909E+23	1,429086E+23	2,910995E+23
1454	7,409675E+22	7,409726E+22	7,145411E+22	7,145498E+22	1,481940E+23	1,429091E+23	2,911031E+23
1455	7,409471E+22	7,409462E+22	7,145434E+22	7,145481E+22	1,481893E+23	1,429092E+23	2,910985E+23
1456	7,409576E+22	7,409745E+22	7,145579E+22	7,145521E+22	1,481932E+23	1,429110E+23	2,911042E+23
1457	7,409765E+22	7,409571E+22	7,145468E+22	7,145465E+22	1,481934E+23	1,429093E+23	2,911027E+23
1458	7,409529E+22	7,409528E+22	7,145465E+22	7,145420E+22	1,481906E+23	1,429089E+23	2,910994E+23
1459	7,409739E+22	7,409790E+22	7,145459E+22	7,145512E+22	1,481953E+23	1,429097E+23	2,911050E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1460	7,409640E+22	7,409514E+22	7,145389E+22	7,145380E+22	1,481915E+23	1,429077E+23	2,910992E+23
1461	7,409391E+22	7,409656E+22	7,145458E+22	7,145343E+22	1,481905E+23	1,429080E+23	2,910985E+23
1462	7,409662E+22	7,409696E+22	7,145382E+22	7,145375E+22	1,481936E+23	1,429076E+23	2,911012E+23
1463	7,409478E+22	7,409328E+22	7,145348E+22	7,145305E+22	1,481881E+23	1,429065E+23	2,910946E+23
1464	7,409417E+22	7,409557E+22	7,145441E+22	7,145345E+22	1,481897E+23	1,429079E+23	2,910976E+23
1465	7,409611E+22	7,409522E+22	7,145269E+22	7,145350E+22	1,481913E+23	1,429062E+23	2,910975E+23
1466	7,409349E+22	7,409397E+22	7,145245E+22	7,145313E+22	1,481875E+23	1,429056E+23	2,910930E+23
1467	7,409539E+22	7,409639E+22	7,145328E+22	7,145386E+22	1,481918E+23	1,429071E+23	2,910989E+23
1468	7,409630E+22	7,409423E+22	7,145322E+22	7,145270E+22	1,481905E+23	1,429059E+23	2,910965E+23
1469	7,409396E+22	7,409508E+22	7,145430E+22	7,145280E+22	1,481890E+23	1,429071E+23	2,910961E+23
1470	7,409687E+22	7,409723E+22	7,145417E+22	7,145430E+22	1,481941E+23	1,429085E+23	2,911026E+23
1471	7,409569E+22	7,409481E+22	7,145411E+22	7,145449E+22	1,481905E+23	1,429086E+23	2,910991E+23
1472	7,409420E+22	7,409702E+22	7,145590E+22	7,145535E+22	1,481912E+23	1,429112E+23	2,911025E+23
1473	7,409731E+22	7,409761E+22	7,145513E+22	7,145570E+22	1,481949E+23	1,429108E+23	2,911058E+23
1474	7,409563E+22	7,409512E+22	7,145540E+22	7,145520E+22	1,481907E+23	1,429106E+23	2,911014E+23
1475	7,409700E+22	7,409727E+22	7,145638E+22	7,145603E+22	1,481943E+23	1,429124E+23	2,911067E+23
1476	7,409868E+22	7,409624E+22	7,145537E+22	7,145523E+22	1,481949E+23	1,429106E+23	2,911055E+23
1477	7,409530E+22	7,409632E+22	7,145531E+22	7,145505E+22	1,481916E+23	1,429104E+23	2,911020E+23
1478	7,409723E+22	7,409866E+22	7,145491E+22	7,145566E+22	1,481959E+23	1,429106E+23	2,911065E+23
1479	7,409674E+22	7,409573E+22	7,145450E+22	7,145440E+22	1,481925E+23	1,429089E+23	2,911014E+23
1480	7,409429E+22	7,409611E+22	7,145589E+22	7,145417E+22	1,481904E+23	1,429101E+23	2,911005E+23
1481	7,409723E+22	7,409710E+22	7,145449E+22	7,145433E+22	1,481943E+23	1,429088E+23	2,911032E+23
1482	7,409515E+22	7,409406E+22	7,145390E+22	7,145382E+22	1,481892E+23	1,429077E+23	2,910969E+23
1483	7,409460E+22	7,409597E+22	7,145451E+22	7,145470E+22	1,481906E+23	1,429092E+23	2,910998E+23
1484	7,409681E+22	7,409582E+22	7,145338E+22	7,145398E+22	1,481926E+23	1,429074E+23	2,911000E+23
1485	7,409385E+22	7,409454E+22	7,145366E+22	7,145350E+22	1,481884E+23	1,429072E+23	2,910955E+23
1486	7,409598E+22	7,409679E+22	7,145408E+22	7,145414E+22	1,481928E+23	1,429082E+23	2,911010E+23
1487	7,409709E+22	7,409499E+22	7,145398E+22	7,145363E+22	1,481921E+23	1,429076E+23	2,910997E+23
1488	7,409416E+22	7,409542E+22	7,145556E+22	7,145432E+22	1,481896E+23	1,429099E+23	2,910995E+23
1489	7,409690E+22	7,409823E+22	7,145482E+22	7,145554E+22	1,481951E+23	1,429104E+23	2,911055E+23
1490	7,409591E+22	7,409574E+22	7,145507E+22	7,145543E+22	1,481917E+23	1,429105E+23	2,911022E+23
1491	7,409518E+22	7,409672E+22	7,145676E+22	7,145630E+22	1,481919E+23	1,429131E+23	2,911050E+23
1492	7,409878E+22	7,409746E+22	7,145623E+22	7,145600E+22	1,481962E+23	1,429122E+23	2,911085E+23
1493	7,409651E+22	7,409563E+22	7,145631E+22	7,145575E+22	1,481921E+23	1,429121E+23	2,911042E+23
1494	7,409743E+22	7,409814E+22	7,145639E+22	7,145666E+22	1,481956E+23	1,429130E+23	2,911086E+23
1495	7,409886E+22	7,409773E+22	7,145554E+22	7,145618E+22	1,481966E+23	1,429117E+23	2,911083E+23
1496	7,409520E+22	7,409683E+22	7,145656E+22	7,145598E+22	1,481920E+23	1,429125E+23	2,911046E+23
1497	7,409732E+22	7,409907E+22	7,145601E+22	7,145603E+22	1,481964E+23	1,429120E+23	2,911084E+23
1498	7,409719E+22	7,409611E+22	7,145573E+22	7,145490E+22	1,481933E+23	1,429106E+23	2,911039E+23
1499	7,409507E+22	7,409555E+22	7,145646E+22	7,145532E+22	1,481906E+23	1,429118E+23	2,911024E+23
1500	7,409788E+22	7,409719E+22	7,145498E+22	7,145524E+22	1,481951E+23	1,429102E+23	2,911053E+23
1501	7,409525E+22	7,409490E+22	7,145420E+22	7,145475E+22	1,481902E+23	1,429089E+23	2,910991E+23
1502	7,409492E+22	7,409644E+22	7,145445E+22	7,145511E+22	1,481914E+23	1,429096E+23	2,911009E+23
1503	7,409769E+22	7,409649E+22	7,145390E+22	7,145427E+22	1,481942E+23	1,429082E+23	2,911024E+23
1504	7,409466E+22	7,409455E+22	7,145505E+22	7,145398E+22	1,481892E+23	1,429090E+23	2,910982E+23
1505	7,409645E+22	7,409752E+22	7,145503E+22	7,145458E+22	1,481940E+23	1,429096E+23	2,911036E+23
1506	7,409725E+22	7,409630E+22	7,145497E+22	7,145458E+22	1,481936E+23	1,429095E+23	2,911031E+23
1507	7,409435E+22	7,409581E+22	7,145635E+22	7,145590E+22	1,481902E+23	1,429122E+23	2,911024E+23
1508	7,409746E+22	7,409855E+22	7,145610E+22	7,145647E+22	1,481960E+23	1,429126E+23	2,911086E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1509	7,409652E+22	7,409609E+22	7,145638E+22	7,145626E+22	1,481926E+23	1,429126E+23	2,911052E+23
1510	7,409616E+22	7,409680E+22	7,145725E+22	7,145699E+22	1,481930E+23	1,429142E+23	2,911072E+23
1511	7,409993E+22	7,409821E+22	7,145658E+22	7,145697E+22	1,481981E+23	1,429135E+23	2,911117E+23
1512	7,409692E+22	7,409630E+22	7,145711E+22	7,145698E+22	1,481932E+23	1,429141E+23	2,911073E+23
1513	7,409745E+22	7,409951E+22	7,145680E+22	7,145731E+22	1,481970E+23	1,429141E+23	2,911111E+23
1514	7,409905E+22	7,409878E+22	7,145648E+22	7,145653E+22	1,481978E+23	1,429130E+23	2,911108E+23
1515	7,409579E+22	7,409646E+22	7,145762E+22	7,145663E+22	1,481922E+23	1,429142E+23	2,911065E+23
1516	7,409820E+22	7,409877E+22	7,145711E+22	7,145626E+22	1,481970E+23	1,429134E+23	2,911103E+23
1517	7,409748E+22	7,409627E+22	7,145648E+22	7,145564E+22	1,481938E+23	1,429121E+23	2,911059E+23
1518	7,409525E+22	7,409594E+22	7,145620E+22	7,145621E+22	1,481912E+23	1,429124E+23	2,911036E+23
1519	7,409828E+22	7,409810E+22	7,145489E+22	7,145614E+22	1,481964E+23	1,429110E+23	2,911074E+23
1520	7,409558E+22	7,409524E+22	7,145519E+22	7,145541E+22	1,481908E+23	1,429106E+23	2,911014E+23
1521	7,409545E+22	7,409715E+22	7,145528E+22	7,145509E+22	1,481926E+23	1,429104E+23	2,911030E+23
1522	7,409844E+22	7,409731E+22	7,145514E+22	7,145453E+22	1,481957E+23	1,429097E+23	2,911054E+23
1523	7,409533E+22	7,409460E+22	7,145612E+22	7,145523E+22	1,481899E+23	1,429113E+23	2,911013E+23
1524	7,409677E+22	7,409807E+22	7,145609E+22	7,145576E+22	1,481948E+23	1,429118E+23	2,911067E+23
1525	7,409711E+22	7,409720E+22	7,145596E+22	7,145599E+22	1,481943E+23	1,429120E+23	2,911063E+23
1526	7,409479E+22	7,409598E+22	7,145675E+22	7,145690E+22	1,481908E+23	1,429136E+23	2,911044E+23
1527	7,409864E+22	7,409882E+22	7,145674E+22	7,145724E+22	1,481975E+23	1,429140E+23	2,911114E+23
1528	7,409769E+22	7,409616E+22	7,145745E+22	7,145706E+22	1,481938E+23	1,429145E+23	2,911084E+23
1529	7,409696E+22	7,409778E+22	7,145759E+22	7,145745E+22	1,481947E+23	1,429150E+23	2,911098E+23
1530	7,410034E+22	7,409987E+22	7,145721E+22	7,145764E+22	1,482002E+23	1,429148E+23	2,911151E+23
1531	7,409719E+22	7,409697E+22	7,145786E+22	7,145798E+22	1,481942E+23	1,429158E+23	2,911100E+23
1532	7,409769E+22	7,409985E+22	7,145821E+22	7,145762E+22	1,481975E+23	1,429158E+23	2,911134E+23
1533	7,409921E+22	7,409907E+22	7,145796E+22	7,145704E+22	1,481983E+23	1,429150E+23	2,911133E+23
1534	7,409632E+22	7,409604E+22	7,145808E+22	7,145733E+22	1,481924E+23	1,429154E+23	2,911078E+23
1535	7,409889E+22	7,409892E+22	7,145734E+22	7,145735E+22	1,481978E+23	1,429147E+23	2,911125E+23
1536	7,409773E+22	7,409657E+22	7,145682E+22	7,145694E+22	1,481943E+23	1,429138E+23	2,911081E+23
1537	7,409539E+22	7,409693E+22	7,145605E+22	7,145673E+22	1,481923E+23	1,429128E+23	2,911051E+23
1538	7,409887E+22	7,409903E+22	7,145554E+22	7,145623E+22	1,481979E+23	1,429118E+23	2,911097E+23
1539	7,409653E+22	7,409514E+22	7,145616E+22	7,145574E+22	1,481917E+23	1,429119E+23	2,911036E+23
1540	7,409636E+22	7,409739E+22	7,145660E+22	7,145517E+22	1,481938E+23	1,429118E+23	2,911055E+23
1541	7,409859E+22	7,409820E+22	7,145629E+22	7,145539E+22	1,481968E+23	1,429117E+23	2,911085E+23
1542	7,409528E+22	7,409529E+22	7,145646E+22	7,145658E+22	1,481906E+23	1,429130E+23	2,911036E+23
1543	7,409700E+22	7,409890E+22	7,145670E+22	7,145717E+22	1,481959E+23	1,429139E+23	2,911098E+23
1544	7,409748E+22	7,409732E+22	7,145730E+22	7,145731E+22	1,481948E+23	1,429146E+23	2,911094E+23
1545	7,409565E+22	7,409652E+22	7,145747E+22	7,145746E+22	1,481922E+23	1,429149E+23	2,911071E+23
1546	7,409993E+22	7,409948E+22	7,145760E+22	7,145777E+22	1,481994E+23	1,429154E+23	2,911148E+23
1547	7,409870E+22	7,409648E+22	7,145815E+22	7,145815E+22	1,481952E+23	1,429163E+23	2,911115E+23
1548	7,409755E+22	7,409883E+22	7,145834E+22	7,145806E+22	1,481964E+23	1,429164E+23	2,911128E+23
1549	7,410023E+22	7,410101E+22	7,145822E+22	7,145833E+22	1,482012E+23	1,429166E+23	2,911178E+23
1550	7,409743E+22	7,409712E+22	7,145859E+22	7,145855E+22	1,481946E+23	1,429171E+23	2,911117E+23
1551	7,409842E+22	7,409985E+22	7,145909E+22	7,145816E+22	1,481983E+23	1,429173E+23	2,911155E+23
1552	7,409970E+22	7,409879E+22	7,145901E+22	7,145800E+22	1,481985E+23	1,429170E+23	2,911155E+23
1553	7,409662E+22	7,409668E+22	7,145803E+22	7,145802E+22	1,481933E+23	1,429161E+23	2,911094E+23
1554	7,409921E+22	7,409999E+22	7,145746E+22	7,145813E+22	1,481992E+23	1,429156E+23	2,911148E+23
1555	7,409812E+22	7,409697E+22	7,145725E+22	7,145781E+22	1,481951E+23	1,429151E+23	2,911101E+23
1556	7,409605E+22	7,409738E+22	7,145709E+22	7,145672E+22	1,481934E+23	1,429138E+23	2,911072E+23
1557	7,409929E+22	7,409965E+22	7,145691E+22	7,145644E+22	1,481989E+23	1,429133E+23	2,911123E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1558	7,409714E+22	7,409524E+22	7,145686E+22	7,145646E+22	1,481924E+23	1,429133E+23	2,911057E+23
1559	7,409675E+22	7,409796E+22	7,145732E+22	7,145641E+22	1,481947E+23	1,429137E+23	2,911084E+23
1560	7,409845E+22	7,409880E+22	7,145720E+22	7,145712E+22	1,481972E+23	1,429143E+23	2,911116E+23
1561	7,409534E+22	7,409607E+22	7,145674E+22	7,145756E+22	1,481914E+23	1,429143E+23	2,911057E+23
1562	7,409788E+22	7,409936E+22	7,145760E+22	7,145780E+22	1,481972E+23	1,429154E+23	2,911126E+23
1563	7,409885E+22	7,409706E+22	7,145813E+22	7,145799E+22	1,481959E+23	1,429161E+23	2,911120E+23
1564	7,409698E+22	7,409684E+22	7,145834E+22	7,145766E+22	1,481938E+23	1,429160E+23	2,911098E+23
1565	7,410041E+22	7,410073E+22	7,145849E+22	7,145842E+22	1,482011E+23	1,429169E+23	2,911180E+23
1566	7,409891E+22	7,409751E+22	7,145847E+22	7,145905E+22	1,481964E+23	1,429175E+23	2,911139E+23
1567	7,409774E+22	7,409981E+22	7,145930E+22	7,145888E+22	1,481976E+23	1,429182E+23	2,911157E+23
1568	7,410028E+22	7,410127E+22	7,145979E+22	7,145932E+22	1,482016E+23	1,429191E+23	2,911207E+23
1569	7,409774E+22	7,409743E+22	7,145939E+22	7,145914E+22	1,481952E+23	1,429185E+23	2,911137E+23
1570	7,409916E+22	7,410007E+22	7,145989E+22	7,145905E+22	1,481992E+23	1,429189E+23	2,911182E+23
1571	7,410027E+22	7,409872E+22	7,145934E+22	7,145942E+22	1,481990E+23	1,429188E+23	2,911178E+23
1572	7,409712E+22	7,409738E+22	7,145822E+22	7,145872E+22	1,481945E+23	1,429169E+23	2,911114E+23
1573	7,409943E+22	7,410089E+22	7,145803E+22	7,145854E+22	1,482003E+23	1,429166E+23	2,911169E+23
1574	7,409877E+22	7,409716E+22	7,145767E+22	7,145794E+22	1,481959E+23	1,429156E+23	2,911115E+23
1575	7,409702E+22	7,409769E+22	7,145801E+22	7,145683E+22	1,481947E+23	1,429148E+23	2,911095E+23
1576	7,409958E+22	7,409986E+22	7,145815E+22	7,145727E+22	1,481994E+23	1,429154E+23	2,911149E+23
1577	7,409707E+22	7,409626E+22	7,145728E+22	7,145738E+22	1,481933E+23	1,429147E+23	2,911080E+23
1578	7,409685E+22	7,409889E+22	7,145793E+22	7,145759E+22	1,481957E+23	1,429155E+23	2,911113E+23
1579	7,409867E+22	7,409882E+22	7,145810E+22	7,145846E+22	1,481975E+23	1,429166E+23	2,911141E+23
1580	7,409627E+22	7,409630E+22	7,145780E+22	7,145796E+22	1,481926E+23	1,429158E+23	2,911083E+23
1581	7,409882E+22	7,409973E+22	7,145875E+22	7,145827E+22	1,481986E+23	1,429170E+23	2,911156E+23
1582	7,409994E+22	7,409733E+22	7,145861E+22	7,145879E+22	1,481973E+23	1,429174E+23	2,911147E+23
1583	7,409781E+22	7,409787E+22	7,145891E+22	7,145862E+22	1,481957E+23	1,429175E+23	2,911132E+23
1584	7,410030E+22	7,410179E+22	7,145948E+22	7,145976E+22	1,482021E+23	1,429192E+23	2,911213E+23
1585	7,409883E+22	7,409863E+22	7,145913E+22	7,145972E+22	1,481975E+23	1,429188E+23	2,911163E+23
1586	7,409831E+22	7,410022E+22	7,146051E+22	7,145949E+22	1,481985E+23	1,429200E+23	2,911185E+23
1587	7,410101E+22	7,410086E+22	7,146089E+22	7,146029E+22	1,482019E+23	1,429212E+23	2,911231E+23
1588	7,409866E+22	7,409756E+22	7,146008E+22	7,145972E+22	1,481962E+23	1,429198E+23	2,911160E+23
1589	7,409946E+22	7,410083E+22	7,146040E+22	7,145992E+22	1,482003E+23	1,429203E+23	2,911206E+23
1590	7,410062E+22	7,409931E+22	7,145922E+22	7,146028E+22	1,481999E+23	1,429195E+23	2,911194E+23
1591	7,409769E+22	7,409805E+22	7,145880E+22	7,145910E+22	1,481957E+23	1,429179E+23	2,911136E+23
1592	7,409975E+22	7,410123E+22	7,145929E+22	7,145901E+22	1,482010E+23	1,429183E+23	2,911193E+23
1593	7,409920E+22	7,409767E+22	7,145834E+22	7,145805E+22	1,481969E+23	1,429164E+23	2,911133E+23
1594	7,409756E+22	7,409813E+22	7,145896E+22	7,145760E+22	1,481957E+23	1,429166E+23	2,911123E+23
1595	7,409963E+22	7,410008E+22	7,145881E+22	7,145874E+22	1,481997E+23	1,429175E+23	2,911173E+23
1596	7,409721E+22	7,409683E+22	7,145780E+22	7,145836E+22	1,481940E+23	1,429162E+23	2,911102E+23
1597	7,409709E+22	7,409934E+22	7,145889E+22	7,145838E+22	1,481964E+23	1,429173E+23	2,911137E+23
1598	7,409968E+22	7,409860E+22	7,145858E+22	7,145904E+22	1,481983E+23	1,429176E+23	2,911159E+23
1599	7,409769E+22	7,409658E+22	7,145854E+22	7,145832E+22	1,481943E+23	1,429169E+23	2,911111E+23
1600	7,409952E+22	7,410041E+22	7,145965E+22	7,145920E+22	1,481999E+23	1,429189E+23	2,911188E+23
1601	7,410007E+22	7,409891E+22	7,145889E+22	7,145952E+22	1,481990E+23	1,429184E+23	2,911174E+23
1602	7,409802E+22	7,409929E+22	7,145985E+22	7,145965E+22	1,481973E+23	1,429195E+23	2,911168E+23
1603	7,410034E+22	7,410217E+22	7,146089E+22	7,146095E+22	1,482025E+23	1,429218E+23	2,911243E+23
1604	7,409947E+22	7,409890E+22	7,146062E+22	7,146030E+22	1,481984E+23	1,429209E+23	2,911193E+23
1605	7,409897E+22	7,410030E+22	7,146190E+22	7,146029E+22	1,481993E+23	1,429222E+23	2,911215E+23
1606	7,410181E+22	7,410067E+22	7,146124E+22	7,146146E+22	1,482025E+23	1,429227E+23	2,911252E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1607	7,409948E+22	7,409819E+22	7,146024E+22	7,146072E+22	1,481977E+23	1,429210E+23	2,911186E+23
1608	7,409960E+22	7,410148E+22	7,146076E+22	7,146098E+22	1,482011E+23	1,429217E+23	2,911228E+23
1609	7,410086E+22	7,410021E+22	7,145942E+22	7,146035E+22	1,482011E+23	1,429198E+23	2,911208E+23
1610	7,409860E+22	7,409849E+22	7,145962E+22	7,145906E+22	1,481971E+23	1,429187E+23	2,911158E+23
1611	7,410021E+22	7,410104E+22	7,146034E+22	7,145947E+22	1,482012E+23	1,429198E+23	2,911211E+23
1612	7,409963E+22	7,409821E+22	7,145918E+22	7,145849E+22	1,481978E+23	1,429177E+23	2,911155E+23
1613	7,409740E+22	7,409891E+22	7,145977E+22	7,145859E+22	1,481963E+23	1,429184E+23	2,911147E+23
1614	7,409961E+22	7,410035E+22	7,145915E+22	7,145998E+22	1,482000E+23	1,429191E+23	2,911191E+23
1615	7,409785E+22	7,409717E+22	7,145860E+22	7,145912E+22	1,481950E+23	1,429177E+23	2,911127E+23
1616	7,409769E+22	7,409942E+22	7,145999E+22	7,145929E+22	1,481971E+23	1,429193E+23	2,911164E+23
1617	7,410050E+22	7,409919E+22	7,145906E+22	7,145949E+22	1,481997E+23	1,429185E+23	2,911182E+23
1618	7,409873E+22	7,409744E+22	7,145927E+22	7,145920E+22	1,481962E+23	1,429185E+23	2,911146E+23
1619	7,409975E+22	7,410124E+22	7,146046E+22	7,146056E+22	1,482010E+23	1,429210E+23	2,911220E+23
1620	7,410039E+22	7,410008E+22	7,145982E+22	7,146029E+22	1,482005E+23	1,429201E+23	2,911206E+23
1621	7,409830E+22	7,409992E+22	7,146141E+22	7,146033E+22	1,481982E+23	1,429217E+23	2,911200E+23
1622	7,410112E+22	7,410189E+22	7,146188E+22	7,146172E+22	1,482030E+23	1,429236E+23	2,911266E+23
1623	7,410065E+22	7,409885E+22	7,146158E+22	7,146103E+22	1,481995E+23	1,429226E+23	2,911221E+23
1624	7,409949E+22	7,410062E+22	7,146258E+22	7,146159E+22	1,482001E+23	1,429242E+23	2,911243E+23
1625	7,410203E+22	7,410170E+22	7,146100E+22	7,146217E+22	1,482037E+23	1,429232E+23	2,911269E+23
1626	7,409998E+22	7,409922E+22	7,146056E+22	7,146134E+22	1,481992E+23	1,429219E+23	2,911211E+23
1627	7,409990E+22	7,410184E+22	7,146162E+22	7,146145E+22	1,482017E+23	1,429231E+23	2,911248E+23
1628	7,410152E+22	7,410066E+22	7,146045E+22	7,146022E+22	1,482022E+23	1,429207E+23	2,911229E+23
1629	7,409902E+22	7,409883E+22	7,146100E+22	7,145944E+22	1,481979E+23	1,429204E+23	2,911183E+23
1630	7,410042E+22	7,410105E+22	7,146084E+22	7,146054E+22	1,482015E+23	1,429214E+23	2,911228E+23
1631	7,409984E+22	7,409878E+22	7,145968E+22	7,145968E+22	1,481986E+23	1,429194E+23	2,911180E+23
1632	7,409725E+22	7,409930E+22	7,146039E+22	7,145999E+22	1,481965E+23	1,429204E+23	2,911169E+23
1633	7,409994E+22	7,410068E+22	7,145944E+22	7,146040E+22	1,482006E+23	1,429198E+23	2,911205E+23
1634	7,409916E+22	7,409744E+22	7,145930E+22	7,145948E+22	1,481966E+23	1,429188E+23	2,911154E+23
1635	7,409868E+22	7,409954E+22	7,146079E+22	7,145999E+22	1,481982E+23	1,429208E+23	2,911190E+23
1636	7,410133E+22	7,410030E+22	7,145977E+22	7,145995E+22	1,482016E+23	1,429197E+23	2,911214E+23
1637	7,409895E+22	7,409882E+22	7,146041E+22	7,146004E+22	1,481978E+23	1,429204E+23	2,911182E+23
1638	7,409982E+22	7,410187E+22	7,146142E+22	7,146164E+22	1,482017E+23	1,429231E+23	2,911247E+23
1639	7,410103E+22	7,410058E+22	7,146135E+22	7,146109E+22	1,482016E+23	1,429224E+23	2,911240E+23
1640	7,409879E+22	7,409987E+22	7,146286E+22	7,146153E+22	1,481987E+23	1,429244E+23	2,911231E+23
1641	7,410171E+22	7,410211E+22	7,146244E+22	7,146256E+22	1,482038E+23	1,429250E+23	2,911288E+23
1642	7,410164E+22	7,409946E+22	7,146183E+22	7,146220E+22	1,482011E+23	1,429240E+23	2,911251E+23
1643	7,409974E+22	7,410115E+22	7,146272E+22	7,146289E+22	1,482009E+23	1,429256E+23	2,911265E+23
1644	7,410252E+22	7,410271E+22	7,146136E+22	7,146248E+22	1,482052E+23	1,429238E+23	2,911291E+23
1645	7,410054E+22	7,409984E+22	7,146167E+22	7,146127E+22	1,482004E+23	1,429229E+23	2,911233E+23
1646	7,410059E+22	7,410173E+22	7,146242E+22	7,146155E+22	1,482023E+23	1,429240E+23	2,911263E+23
1647	7,410231E+22	7,410095E+22	7,146142E+22	7,146051E+22	1,482033E+23	1,429219E+23	2,911252E+23
1648	7,409887E+22	7,409927E+22	7,146179E+22	7,146070E+22	1,481981E+23	1,429225E+23	2,911206E+23
1649	7,409999E+22	7,410184E+22	7,146093E+22	7,146149E+22	1,482018E+23	1,429224E+23	2,911242E+23
1650	7,410016E+22	7,409932E+22	7,146019E+22	7,146072E+22	1,481995E+23	1,429209E+23	2,911204E+23
1651	7,409769E+22	7,409922E+22	7,146124E+22	7,146090E+22	1,481969E+23	1,429221E+23	2,911190E+23
1652	7,410111E+22	7,410096E+22	7,146027E+22	7,146058E+22	1,482021E+23	1,429209E+23	2,911229E+23
1653	7,410019E+22	7,409801E+22	7,146046E+22	7,145989E+22	1,481982E+23	1,429203E+23	2,911185E+23
1654	7,409937E+22	7,410012E+22	7,146127E+22	7,146094E+22	1,481995E+23	1,429222E+23	2,911217E+23
1655	7,410182E+22	7,410141E+22	7,146059E+22	7,146092E+22	1,482032E+23	1,429215E+23	2,911247E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1656	7,409889E+22	7,409963E+22	7,146166E+22	7,146139E+22	1,481985E+23	1,429230E+23	2,911216E+23
1657	7,410004E+22	7,410224E+22	7,146225E+22	7,146217E+22	1,482023E+23	1,429244E+23	2,911267E+23
1658	7,410207E+22	7,410071E+22	7,146232E+22	7,146193E+22	1,482028E+23	1,429242E+23	2,911270E+23
1659	7,409952E+22	7,409990E+22	7,146357E+22	7,146273E+22	1,481994E+23	1,429263E+23	2,911257E+23
1660	7,410245E+22	7,410293E+22	7,146272E+22	7,146328E+22	1,482054E+23	1,429260E+23	2,911314E+23
1661	7,410202E+22	7,410069E+22	7,146251E+22	7,146286E+22	1,482027E+23	1,429254E+23	2,911281E+23
1662	7,410019E+22	7,410172E+22	7,146317E+22	7,146345E+22	1,482019E+23	1,429266E+23	2,911285E+23
1663	7,410331E+22	7,410322E+22	7,146256E+22	7,146259E+22	1,482065E+23	1,429251E+23	2,911317E+23
1664	7,410087E+22	7,410010E+22	7,146301E+22	7,146194E+22	1,482010E+23	1,429250E+23	2,911259E+23
1665	7,410066E+22	7,410199E+22	7,146304E+22	7,146206E+22	1,482027E+23	1,429251E+23	2,911278E+23
1666	7,410262E+22	7,410153E+22	7,146187E+22	7,146177E+22	1,482041E+23	1,429236E+23	2,911278E+23
1667	7,409870E+22	7,409957E+22	7,146213E+22	7,146221E+22	1,481983E+23	1,429243E+23	2,911226E+23
1668	7,410040E+22	7,410223E+22	7,146139E+22	7,146205E+22	1,482026E+23	1,429234E+23	2,911261E+23
1669	7,410106E+22	7,409955E+22	7,146119E+22	7,146089E+22	1,482006E+23	1,429221E+23	2,911227E+23
1670	7,409887E+22	7,409905E+22	7,146171E+22	7,146124E+22	1,481979E+23	1,429229E+23	2,911209E+23
1671	7,410234E+22	7,410158E+22	7,146107E+22	7,146094E+22	1,482039E+23	1,429220E+23	2,911259E+23
1672	7,410037E+22	7,409911E+22	7,146122E+22	7,146099E+22	1,481995E+23	1,429222E+23	2,911217E+23
1673	7,409904E+22	7,410135E+22	7,146179E+22	7,146169E+22	1,482004E+23	1,429235E+23	2,911239E+23
1674	7,410211E+22	7,410237E+22	7,146160E+22	7,146195E+22	1,482045E+23	1,429236E+23	2,911280E+23
1675	7,409910E+22	7,409965E+22	7,146301E+22	7,146260E+22	1,481988E+23	1,429256E+23	2,911244E+23
1676	7,410091E+22	7,410239E+22	7,146339E+22	7,146289E+22	1,482033E+23	1,429263E+23	2,911296E+23
1677	7,410300E+22	7,410107E+22	7,146339E+22	7,146285E+22	1,482041E+23	1,429262E+23	2,911303E+23
1678	7,410028E+22	7,410030E+22	7,146367E+22	7,146400E+22	1,482006E+23	1,429277E+23	2,911282E+23
1679	7,410324E+22	7,410387E+22	7,146316E+22	7,146404E+22	1,482071E+23	1,429272E+23	2,911343E+23
1680	7,410229E+22	7,410148E+22	7,146339E+22	7,146355E+22	1,482038E+23	1,429269E+23	2,911307E+23
1681	7,410059E+22	7,410215E+22	7,146389E+22	7,146330E+22	1,482027E+23	1,429272E+23	2,911299E+23
1682	7,410419E+22	7,410357E+22	7,146344E+22	7,146298E+22	1,482078E+23	1,429264E+23	2,911342E+23
1683	7,410103E+22	7,410027E+22	7,146386E+22	7,146303E+22	1,482013E+23	1,429269E+23	2,911282E+23
1684	7,410072E+22	7,410269E+22	7,146347E+22	7,146290E+22	1,482034E+23	1,429264E+23	2,911298E+23
1685	7,410257E+22	7,410225E+22	7,146269E+22	7,146266E+22	1,482048E+23	1,429254E+23	2,911302E+23
1686	7,409915E+22	7,409961E+22	7,146252E+22	7,146305E+22	1,481988E+23	1,429256E+23	2,911243E+23
1687	7,410153E+22	7,410223E+22	7,146228E+22	7,146233E+22	1,482038E+23	1,429246E+23	2,911284E+23
1688	7,410180E+22	7,409988E+22	7,146213E+22	7,146161E+22	1,482017E+23	1,429237E+23	2,911254E+23
1689	7,409939E+22	7,409967E+22	7,146196E+22	7,146161E+22	1,481991E+23	1,429236E+23	2,911226E+23
1690	7,410275E+22	7,410270E+22	7,146143E+22	7,146203E+22	1,482055E+23	1,429235E+23	2,911289E+23
1691	7,410014E+22	7,410002E+22	7,146201E+22	7,146240E+22	1,482002E+23	1,429244E+23	2,911246E+23
1692	7,409929E+22	7,410195E+22	7,146285E+22	7,146228E+22	1,482012E+23	1,429251E+23	2,911264E+23
1693	7,410277E+22	7,410260E+22	7,146322E+22	7,146245E+22	1,482054E+23	1,429257E+23	2,911310E+23
1694	7,410020E+22	7,409941E+22	7,146374E+22	7,146349E+22	1,481996E+23	1,429272E+23	2,911268E+23
1695	7,410213E+22	7,410268E+22	7,146417E+22	7,146373E+22	1,482048E+23	1,429279E+23	2,911327E+23
1696	7,410334E+22	7,410210E+22	7,146395E+22	7,146417E+22	1,482054E+23	1,429281E+23	2,911336E+23
1697	7,410044E+22	7,410136E+22	7,146387E+22	7,146456E+22	1,482018E+23	1,429284E+23	2,911302E+23
1698	7,410390E+22	7,410480E+22	7,146398E+22	7,146466E+22	1,482087E+23	1,429286E+23	2,911373E+23
1699	7,410267E+22	7,410183E+22	7,146467E+22	7,146427E+22	1,482045E+23	1,429289E+23	2,911334E+23
1700	7,410118E+22	7,410251E+22	7,146504E+22	7,146365E+22	1,482037E+23	1,429287E+23	2,911324E+23
1701	7,410453E+22	7,410406E+22	7,146461E+22	7,146379E+22	1,482086E+23	1,429284E+23	2,911370E+23
1702	7,410117E+22	7,410047E+22	7,146404E+22	7,146447E+22	1,482016E+23	1,429285E+23	2,911302E+23
1703	7,410117E+22	7,410302E+22	7,146398E+22	7,146388E+22	1,482042E+23	1,429279E+23	2,911321E+23
1704	7,410287E+22	7,410243E+22	7,146331E+22	7,146344E+22	1,482053E+23	1,429268E+23	2,911321E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1705	7,409983E+22	7,409961E+22	7,146274E+22	7,146294E+22	1,481994E+23	1,429257E+23	2,911251E+23
1706	7,410273E+22	7,410269E+22	7,146260E+22	7,146265E+22	1,482054E+23	1,429252E+23	2,911307E+23
1707	7,410209E+22	7,410055E+22	7,146268E+22	7,146245E+22	1,482026E+23	1,429251E+23	2,911278E+23
1708	7,409946E+22	7,410091E+22	7,146261E+22	7,146218E+22	1,482004E+23	1,429248E+23	2,911252E+23
1709	7,410265E+22	7,410379E+22	7,146277E+22	7,146273E+22	1,482064E+23	1,429255E+23	2,911319E+23
1710	7,410043E+22	7,410015E+22	7,146314E+22	7,146344E+22	1,482006E+23	1,429266E+23	2,911272E+23
1711	7,410028E+22	7,410182E+22	7,146435E+22	7,146304E+22	1,482021E+23	1,429274E+23	2,911295E+23
1712	7,410342E+22	7,410267E+22	7,146443E+22	7,146375E+22	1,482061E+23	1,429282E+23	2,911343E+23
1713	7,410088E+22	7,409982E+22	7,146396E+22	7,146443E+22	1,482007E+23	1,429284E+23	2,911291E+23
1714	7,410297E+22	7,410375E+22	7,146422E+22	7,146508E+22	1,482067E+23	1,429293E+23	2,911360E+23
1715	7,410355E+22	7,410310E+22	7,146453E+22	7,146536E+22	1,482066E+23	1,429299E+23	2,911365E+23
1716	7,410112E+22	7,410218E+22	7,146481E+22	7,146466E+22	1,482033E+23	1,429295E+23	2,911328E+23
1717	7,410462E+22	7,410530E+22	7,146556E+22	7,146472E+22	1,482099E+23	1,429303E+23	2,911402E+23
1718	7,410342E+22	7,410193E+22	7,146554E+22	7,146502E+22	1,482053E+23	1,429306E+23	2,911359E+23
1719	7,410180E+22	7,410277E+22	7,146590E+22	7,146450E+22	1,482046E+23	1,429304E+23	2,911350E+23
1720	7,410417E+22	7,410480E+22	7,146523E+22	7,146519E+22	1,482090E+23	1,429304E+23	2,911394E+23
1721	7,410111E+22	7,410092E+22	7,146406E+22	7,146510E+22	1,482020E+23	1,429292E+23	2,911312E+23
1722	7,410186E+22	7,410323E+22	7,146433E+22	7,146452E+22	1,482051E+23	1,429289E+23	2,911339E+23
1723	7,410342E+22	7,410249E+22	7,146411E+22	7,146407E+22	1,482059E+23	1,429282E+23	2,911341E+23
1724	7,410073E+22	7,410002E+22	7,146338E+22	7,146301E+22	1,482008E+23	1,429264E+23	2,911271E+23
1725	7,410319E+22	7,410355E+22	7,146358E+22	7,146310E+22	1,482067E+23	1,429267E+23	2,911334E+23
1726	7,410226E+22	7,410133E+22	7,146309E+22	7,146357E+22	1,482036E+23	1,429267E+23	2,911302E+23
1727	7,409981E+22	7,410141E+22	7,146375E+22	7,146301E+22	1,482012E+23	1,429268E+23	2,911280E+23
1728	7,410268E+22	7,410406E+22	7,146418E+22	7,146370E+22	1,482067E+23	1,429279E+23	2,911346E+23
1729	7,410109E+22	7,410001E+22	7,146387E+22	7,146397E+22	1,482011E+23	1,429278E+23	2,911289E+23
1730	7,410150E+22	7,410204E+22	7,146485E+22	7,146418E+22	1,482035E+23	1,429290E+23	2,911326E+23
1731	7,410391E+22	7,410332E+22	7,146492E+22	7,146520E+22	1,482072E+23	1,429301E+23	2,911374E+23
1732	7,410137E+22	7,410115E+22	7,146435E+22	7,146516E+22	1,482025E+23	1,429295E+23	2,911320E+23
1733	7,410344E+22	7,410503E+22	7,146538E+22	7,146558E+22	1,482085E+23	1,429310E+23	2,911394E+23
1734	7,410420E+22	7,410357E+22	7,146559E+22	7,146602E+22	1,482078E+23	1,429316E+23	2,911394E+23
1735	7,410216E+22	7,410240E+22	7,146643E+22	7,146512E+22	1,482046E+23	1,429316E+23	2,911361E+23
1736	7,410486E+22	7,410560E+22	7,146684E+22	7,146572E+22	1,482105E+23	1,429326E+23	2,911430E+23
1737	7,410348E+22	7,410218E+22	7,146581E+22	7,146600E+22	1,482057E+23	1,429318E+23	2,911375E+23
1738	7,410211E+22	7,410339E+22	7,146588E+22	7,146590E+22	1,482055E+23	1,429318E+23	2,911373E+23
1739	7,410414E+22	7,410501E+22	7,146560E+22	7,146631E+22	1,482092E+23	1,429319E+23	2,911411E+23
1740	7,410186E+22	7,410113E+22	7,146458E+22	7,146499E+22	1,482030E+23	1,429296E+23	2,911326E+23
1741	7,410293E+22	7,410348E+22	7,146522E+22	7,146431E+22	1,482064E+23	1,429295E+23	2,911359E+23
1742	7,410430E+22	7,410274E+22	7,146451E+22	7,146448E+22	1,482070E+23	1,429290E+23	2,911360E+23
1743	7,410140E+22	7,410075E+22	7,146421E+22	7,146352E+22	1,482021E+23	1,429277E+23	2,911299E+23
1744	7,410268E+22	7,410464E+22	7,146457E+22	7,146413E+22	1,482073E+23	1,429287E+23	2,911360E+23
1745	7,410206E+22	7,410189E+22	7,146384E+22	7,146429E+22	1,482039E+23	1,429281E+23	2,911321E+23
1746	7,410041E+22	7,410163E+22	7,146470E+22	7,146412E+22	1,482020E+23	1,429288E+23	2,911309E+23
1747	7,410311E+22	7,410399E+22	7,146536E+22	7,146504E+22	1,482071E+23	1,429304E+23	2,911375E+23
1748	7,410206E+22	7,410039E+22	7,146456E+22	7,146477E+22	1,482024E+23	1,429293E+23	2,911318E+23
1749	7,410231E+22	7,410292E+22	7,146553E+22	7,146522E+22	1,482052E+23	1,429307E+23	2,911360E+23
1750	7,410455E+22	7,410430E+22	7,146517E+22	7,146649E+22	1,482089E+23	1,429317E+23	2,911405E+23
1751	7,410237E+22	7,410187E+22	7,146540E+22	7,146562E+22	1,482042E+23	1,429310E+23	2,911353E+23
1752	7,410380E+22	7,410562E+22	7,146689E+22	7,146596E+22	1,482094E+23	1,429328E+23	2,911423E+23
1753	7,410490E+22	7,410380E+22	7,146646E+22	7,146617E+22	1,482087E+23	1,429326E+23	2,911413E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1754	7,410291E+22	7,410275E+22	7,146706E+22	7,146613E+22	1,482057E+23	1,429332E+23	2,911388E+23
1755	7,410461E+22	7,410613E+22	7,146751E+22	7,146722E+22	1,482107E+23	1,429347E+23	2,911455E+23
1756	7,410353E+22	7,410296E+22	7,146614E+22	7,146677E+22	1,482065E+23	1,429329E+23	2,911394E+23
1757	7,410248E+22	7,410390E+22	7,146670E+22	7,146642E+22	1,482064E+23	1,429331E+23	2,911395E+23
1758	7,410493E+22	7,410499E+22	7,146617E+22	7,146683E+22	1,482099E+23	1,429330E+23	2,911429E+23
1759	7,410314E+22	7,410114E+22	7,146560E+22	7,146507E+22	1,482043E+23	1,429307E+23	2,911350E+23
1760	7,410327E+22	7,410404E+22	7,146616E+22	7,146486E+22	1,482073E+23	1,429310E+23	2,911383E+23
1761	7,410441E+22	7,410347E+22	7,146469E+22	7,146514E+22	1,482079E+23	1,429298E+23	2,911377E+23
1762	7,410154E+22	7,410171E+22	7,146453E+22	7,146483E+22	1,482032E+23	1,429294E+23	2,911326E+23
1763	7,410235E+22	7,410500E+22	7,146558E+22	7,146535E+22	1,482074E+23	1,429309E+23	2,911383E+23
1764	7,410258E+22	7,410202E+22	7,146488E+22	7,146469E+22	1,482046E+23	1,429296E+23	2,911342E+23
1765	7,410148E+22	7,410177E+22	7,146578E+22	7,146467E+22	1,482033E+23	1,429305E+23	2,911337E+23
1766	7,410414E+22	7,410407E+22	7,146576E+22	7,146615E+22	1,482082E+23	1,429319E+23	2,911401E+23
1767	7,410310E+22	7,410121E+22	7,146522E+22	7,146559E+22	1,482043E+23	1,429308E+23	2,911351E+23
1768	7,410248E+22	7,410422E+22	7,146630E+22	7,146605E+22	1,482067E+23	1,429323E+23	2,911390E+23
1769	7,410490E+22	7,410503E+22	7,146589E+22	7,146683E+22	1,482099E+23	1,429327E+23	2,911426E+23
1770	7,410324E+22	7,410250E+22	7,146653E+22	7,146635E+22	1,482057E+23	1,429329E+23	2,911386E+23
1771	7,410403E+22	7,410581E+22	7,146832E+22	7,146699E+22	1,482098E+23	1,429353E+23	2,911452E+23
1772	7,410535E+22	7,410425E+22	7,146741E+22	7,146697E+22	1,482096E+23	1,429344E+23	2,911440E+23
1773	7,410325E+22	7,410348E+22	7,146772E+22	7,146732E+22	1,482067E+23	1,429350E+23	2,911418E+23
1774	7,410483E+22	7,410649E+22	7,146767E+22	7,146858E+22	1,482113E+23	1,429363E+23	2,911476E+23
1775	7,410446E+22	7,410313E+22	7,146689E+22	7,146719E+22	1,482076E+23	1,429341E+23	2,911417E+23
1776	7,410312E+22	7,410413E+22	7,146757E+22	7,146658E+22	1,482073E+23	1,429341E+23	2,911414E+23
1777	7,410583E+22	7,410512E+22	7,146647E+22	7,146679E+22	1,482109E+23	1,429333E+23	2,911442E+23
1778	7,410396E+22	7,410192E+22	7,146586E+22	7,146574E+22	1,482059E+23	1,429316E+23	2,911375E+23
1779	7,410283E+22	7,410501E+22	7,146685E+22	7,146596E+22	1,482078E+23	1,429328E+23	2,911406E+23
1780	7,410417E+22	7,410453E+22	7,146541E+22	7,146573E+22	1,482087E+23	1,429311E+23	2,911398E+23
1781	7,410171E+22	7,410219E+22	7,146580E+22	7,146557E+22	1,482039E+23	1,429314E+23	2,911353E+23
1782	7,410293E+22	7,410478E+22	7,146662E+22	7,146640E+22	1,482077E+23	1,429330E+23	2,911407E+23
1783	7,410392E+22	7,410178E+22	7,146598E+22	7,146536E+22	1,482057E+23	1,429313E+23	2,911370E+23
1784	7,410207E+22	7,410220E+22	7,146653E+22	7,146565E+22	1,482043E+23	1,429322E+23	2,911365E+23
1785	7,410475E+22	7,410485E+22	7,146569E+22	7,146699E+22	1,482096E+23	1,429327E+23	2,911423E+23
1786	7,410380E+22	7,410236E+22	7,146544E+22	7,146659E+22	1,482062E+23	1,429320E+23	2,911382E+23
1787	7,410262E+22	7,410492E+22	7,146751E+22	7,146679E+22	1,482075E+23	1,429343E+23	2,911418E+23
1788	7,410560E+22	7,410559E+22	7,146712E+22	7,146689E+22	1,482112E+23	1,429340E+23	2,911452E+23
1789	7,410405E+22	7,410301E+22	7,146788E+22	7,146697E+22	1,482071E+23	1,429349E+23	2,911419E+23
1790	7,410441E+22	7,410613E+22	7,146904E+22	7,146836E+22	1,482105E+23	1,429374E+23	2,911479E+23
1791	7,410585E+22	7,410483E+22	7,146821E+22	7,146809E+22	1,482107E+23	1,429363E+23	2,911470E+23
1792	7,410320E+22	7,410427E+22	7,146848E+22	7,146834E+22	1,482075E+23	1,429368E+23	2,911443E+23
1793	7,410540E+22	7,410663E+22	7,146804E+22	7,146902E+22	1,482120E+23	1,429371E+23	2,911491E+23
1794	7,410558E+22	7,410350E+22	7,146743E+22	7,146771E+22	1,482091E+23	1,429351E+23	2,911442E+23
1795	7,410359E+22	7,410442E+22	7,146842E+22	7,146722E+22	1,482080E+23	1,429356E+23	2,911436E+23
1796	7,410620E+22	7,410586E+22	7,146701E+22	7,146715E+22	1,482121E+23	1,429342E+23	2,911462E+23
1797	7,410412E+22	7,410305E+22	7,146648E+22	7,146665E+22	1,482072E+23	1,429331E+23	2,911403E+23
1798	7,410270E+22	7,410538E+22	7,146740E+22	7,146709E+22	1,482081E+23	1,429345E+23	2,911426E+23
1799	7,410476E+22	7,410446E+22	7,146667E+22	7,146619E+22	1,482092E+23	1,429329E+23	2,911421E+23
1800	7,410227E+22	7,410216E+22	7,146688E+22	7,146597E+22	1,482044E+23	1,429328E+23	2,911373E+23
1801	7,410388E+22	7,410446E+22	7,146687E+22	7,146688E+22	1,482083E+23	1,429337E+23	2,911421E+23
1802	7,410491E+22	7,410252E+22	7,146607E+22	7,146642E+22	1,482074E+23	1,429325E+23	2,911399E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1803	7,410210E+22	7,410329E+22	7,146696E+22	7,146681E+22	1,482054E+23	1,429338E+23	2,911392E+23
1804	7,410497E+22	7,410610E+22	7,146640E+22	7,146740E+22	1,482111E+23	1,429338E+23	2,911449E+23
1805	7,410439E+22	7,410342E+22	7,146681E+22	7,146711E+22	1,482078E+23	1,429339E+23	2,911417E+23
1806	7,410315E+22	7,410516E+22	7,146890E+22	7,146771E+22	1,482083E+23	1,429366E+23	2,911449E+23
1807	7,410655E+22	7,410576E+22	7,146871E+22	7,146774E+22	1,482123E+23	1,429364E+23	2,911487E+23
1808	7,410426E+22	7,410360E+22	7,146895E+22	7,146831E+22	1,482079E+23	1,429373E+23	2,911451E+23
1809	7,410470E+22	7,410655E+22	7,146915E+22	7,146970E+22	1,482112E+23	1,429389E+23	2,911501E+23
1810	7,410653E+22	7,410552E+22	7,146838E+22	7,146932E+22	1,482120E+23	1,429377E+23	2,911498E+23
1811	7,410362E+22	7,410452E+22	7,146925E+22	7,146902E+22	1,482081E+23	1,429383E+23	2,911464E+23
1812	7,410641E+22	7,410694E+22	7,146869E+22	7,146881E+22	1,482134E+23	1,429375E+23	2,911509E+23
1813	7,410656E+22	7,410417E+22	7,146813E+22	7,146791E+22	1,482107E+23	1,429360E+23	2,911468E+23
1814	7,410383E+22	7,410506E+22	7,146896E+22	7,146806E+22	1,482089E+23	1,429370E+23	2,911459E+23
1815	7,410639E+22	7,410664E+22	7,146784E+22	7,146772E+22	1,482130E+23	1,429356E+23	2,911486E+23
1816	7,410370E+22	7,410371E+22	7,146759E+22	7,146738E+22	1,482074E+23	1,429350E+23	2,911424E+23
1817	7,410294E+22	7,410517E+22	7,146811E+22	7,146770E+22	1,482081E+23	1,429358E+23	2,911439E+23
1818	7,410564E+22	7,410439E+22	7,146734E+22	7,146709E+22	1,482100E+23	1,429344E+23	2,911445E+23
1819	7,410272E+22	7,410219E+22	7,146762E+22	7,146707E+22	1,482049E+23	1,429347E+23	2,911396E+23
1820	7,410450E+22	7,410514E+22	7,146706E+22	7,146757E+22	1,482096E+23	1,429346E+23	2,911443E+23
1821	7,410542E+22	7,410390E+22	7,146635E+22	7,146741E+22	1,482093E+23	1,429338E+23	2,911431E+23
1822	7,410242E+22	7,410410E+22	7,146767E+22	7,146774E+22	1,482065E+23	1,429354E+23	2,911419E+23
1823	7,410586E+22	7,410650E+22	7,146795E+22	7,146762E+22	1,482124E+23	1,429356E+23	2,911479E+23
1824	7,410496E+22	7,410391E+22	7,146846E+22	7,146757E+22	1,482089E+23	1,429360E+23	2,911449E+23
1825	7,410387E+22	7,410520E+22	7,146969E+22	7,146863E+22	1,482091E+23	1,429383E+23	2,911474E+23
1826	7,410709E+22	7,410652E+22	7,146924E+22	7,146926E+22	1,482136E+23	1,429385E+23	2,911521E+23
1827	7,410416E+22	7,410439E+22	7,146958E+22	7,146985E+22	1,482085E+23	1,429394E+23	2,911480E+23
1828	7,410508E+22	7,410712E+22	7,146972E+22	7,147031E+22	1,482122E+23	1,429400E+23	2,911522E+23
1829	7,410749E+22	7,410621E+22	7,146922E+22	7,146984E+22	1,482137E+23	1,429391E+23	2,911528E+23
1830	7,410458E+22	7,410460E+22	7,147002E+22	7,146953E+22	1,482092E+23	1,429395E+23	2,911487E+23
1831	7,410743E+22	7,410719E+22	7,146976E+22	7,146904E+22	1,482146E+23	1,429388E+23	2,911534E+23
1832	7,410661E+22	7,410517E+22	7,146893E+22	7,146853E+22	1,482118E+23	1,429375E+23	2,911492E+23
1833	7,410370E+22	7,410551E+22	7,146912E+22	7,146895E+22	1,482092E+23	1,429381E+23	2,911473E+23
1834	7,410647E+22	7,410712E+22	7,146841E+22	7,146868E+22	1,482136E+23	1,429371E+23	2,911507E+23
1835	7,410377E+22	7,410359E+22	7,146856E+22	7,146817E+22	1,482074E+23	1,429367E+23	2,911441E+23
1836	7,410368E+22	7,410498E+22	7,146869E+22	7,146795E+22	1,482087E+23	1,429366E+23	2,911453E+23
1837	7,410658E+22	7,410493E+22	7,146769E+22	7,146786E+22	1,482115E+23	1,429355E+23	2,911471E+23
1838	7,410316E+22	7,410290E+22	7,146783E+22	7,146815E+22	1,482061E+23	1,429360E+23	2,911420E+23
1839	7,410507E+22	7,410615E+22	7,146783E+22	7,146812E+22	1,482112E+23	1,429360E+23	2,911472E+23
1840	7,410556E+22	7,410505E+22	7,146767E+22	7,146786E+22	1,482106E+23	1,429355E+23	2,911461E+23
1841	7,410302E+22	7,410432E+22	7,146885E+22	7,146831E+22	1,482073E+23	1,429372E+23	2,911445E+23
1842	7,410669E+22	7,410684E+22	7,146926E+22	7,146860E+22	1,482135E+23	1,429379E+23	2,911514E+23
1843	7,410520E+22	7,410415E+22	7,146978E+22	7,146908E+22	1,482094E+23	1,429389E+23	2,911482E+23
1844	7,410424E+22	7,410578E+22	7,147020E+22	7,146988E+22	1,482100E+23	1,429401E+23	2,911501E+23
1845	7,410758E+22	7,410749E+22	7,146953E+22	7,147069E+22	1,482151E+23	1,429402E+23	2,911553E+23
1846	7,410474E+22	7,410476E+22	7,147014E+22	7,147086E+22	1,482095E+23	1,429410E+23	2,911505E+23
1847	7,410644E+22	7,410725E+22	7,147070E+22	7,147026E+22	1,482137E+23	1,429410E+23	2,911546E+23
1848	7,410831E+22	7,410675E+22	7,147025E+22	7,146977E+22	1,482151E+23	1,429400E+23	2,911551E+23
1849	7,410529E+22	7,410497E+22	7,147041E+22	7,146995E+22	1,482103E+23	1,429404E+23	2,911506E+23
1850	7,410758E+22	7,410818E+22	7,147020E+22	7,146992E+22	1,482158E+23	1,429401E+23	2,911559E+23
1851	7,410597E+22	7,410598E+22	7,146983E+22	7,146967E+22	1,482119E+23	1,429395E+23	2,911514E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1852	7,410357E+22	7,410579E+22	7,146988E+22	7,146948E+22	1,482094E+23	1,429394E+23	2,911487E+23
1853	7,410693E+22	7,410734E+22	7,146922E+22	7,146949E+22	1,482143E+23	1,429387E+23	2,911530E+23
1854	7,410447E+22	7,410331E+22	7,146927E+22	7,146912E+22	1,482078E+23	1,429384E+23	2,911462E+23
1855	7,410480E+22	7,410498E+22	7,146935E+22	7,146855E+22	1,482098E+23	1,429379E+23	2,911477E+23
1856	7,410695E+22	7,410597E+22	7,146821E+22	7,146859E+22	1,482129E+23	1,429368E+23	2,911497E+23
1857	7,410365E+22	7,410362E+22	7,146798E+22	7,146892E+22	1,482073E+23	1,429369E+23	2,911442E+23
1858	7,410563E+22	7,410692E+22	7,146877E+22	7,146868E+22	1,482125E+23	1,429375E+23	2,911500E+23
1859	7,410591E+22	7,410541E+22	7,146920E+22	7,146849E+22	1,482113E+23	1,429377E+23	2,911490E+23
1860	7,410370E+22	7,410443E+22	7,146995E+22	7,146882E+22	1,482081E+23	1,429388E+23	2,911469E+23
1861	7,410728E+22	7,410764E+22	7,147001E+22	7,146995E+22	1,482149E+23	1,429400E+23	2,911549E+23
1862	7,410546E+22	7,410477E+22	7,147027E+22	7,147069E+22	1,482102E+23	1,429410E+23	2,911512E+23
1863	7,410487E+22	7,410634E+22	7,147096E+22	7,147080E+22	1,482112E+23	1,429418E+23	2,911530E+23
1864	7,410807E+22	7,410834E+22	7,147060E+22	7,147115E+22	1,482164E+23	1,429418E+23	2,911582E+23
1865	7,410581E+22	7,410487E+22	7,147079E+22	7,147123E+22	1,482107E+23	1,429420E+23	2,911527E+23
1866	7,410749E+22	7,410771E+22	7,147161E+22	7,147073E+22	1,482152E+23	1,429423E+23	2,911575E+23
1867	7,410850E+22	7,410741E+22	7,147122E+22	7,147069E+22	1,482159E+23	1,429419E+23	2,911578E+23
1868	7,410522E+22	7,410579E+22	7,147081E+22	7,147075E+22	1,482110E+23	1,429416E+23	2,911526E+23
1869	7,410743E+22	7,410919E+22	7,147061E+22	7,147107E+22	1,482166E+23	1,429417E+23	2,911583E+23
1870	7,410604E+22	7,410593E+22	7,147068E+22	7,147061E+22	1,482120E+23	1,429413E+23	2,911533E+23
1871	7,410459E+22	7,410535E+22	7,147092E+22	7,146968E+22	1,482099E+23	1,429406E+23	2,911505E+23
1872	7,410772E+22	7,410744E+22	7,147006E+22	7,146974E+22	1,482152E+23	1,429398E+23	2,911550E+23
1873	7,410537E+22	7,410350E+22	7,146929E+22	7,146979E+22	1,482089E+23	1,429391E+23	2,911479E+23
1874	7,410537E+22	7,410603E+22	7,146954E+22	7,146932E+22	1,482114E+23	1,429389E+23	2,911503E+23
1875	7,410681E+22	7,410701E+22	7,146910E+22	7,146943E+22	1,482138E+23	1,429385E+23	2,911524E+23
1876	7,410394E+22	7,410431E+22	7,146903E+22	7,146926E+22	1,482082E+23	1,429383E+23	2,911465E+23
1877	7,410616E+22	7,410754E+22	7,146993E+22	7,146947E+22	1,482137E+23	1,429394E+23	2,911531E+23
1878	7,410640E+22	7,410544E+22	7,147052E+22	7,146975E+22	1,482118E+23	1,429403E+23	2,911521E+23
1879	7,410454E+22	7,410463E+22	7,147093E+22	7,146990E+22	1,482092E+23	1,429408E+23	2,911500E+23
1880	7,410744E+22	7,410853E+22	7,147068E+22	7,147115E+22	1,482160E+23	1,429418E+23	2,911578E+23
1881	7,410609E+22	7,410525E+22	7,147045E+22	7,147183E+22	1,482113E+23	1,429423E+23	2,911536E+23
1882	7,410592E+22	7,410681E+22	7,147164E+22	7,147134E+22	1,482127E+23	1,429430E+23	2,911557E+23
1883	7,410883E+22	7,410868E+22	7,147177E+22	7,147153E+22	1,482175E+23	1,429433E+23	2,911608E+23
1884	7,410669E+22	7,410537E+22	7,147147E+22	7,147134E+22	1,482121E+23	1,429428E+23	2,911549E+23
1885	7,410786E+22	7,410888E+22	7,147211E+22	7,147159E+22	1,482167E+23	1,429437E+23	2,911604E+23
1886	7,410829E+22	7,410825E+22	7,147197E+22	7,147190E+22	1,482165E+23	1,429439E+23	2,911604E+23
1887	7,410539E+22	7,410619E+22	7,147183E+22	7,147144E+22	1,482116E+23	1,429433E+23	2,911549E+23
1888	7,410747E+22	7,410952E+22	7,147187E+22	7,147155E+22	1,482170E+23	1,429434E+23	2,911604E+23
1889	7,410692E+22	7,410549E+22	7,147126E+22	7,147129E+22	1,482124E+23	1,429425E+23	2,911550E+23
1890	7,410566E+22	7,410528E+22	7,147148E+22	7,147037E+22	1,482109E+23	1,429418E+23	2,911528E+23
1891	7,410814E+22	7,410791E+22	7,147059E+22	7,147071E+22	1,482160E+23	1,429413E+23	2,911573E+23
1892	7,410565E+22	7,410442E+22	7,146924E+22	7,147040E+22	1,482101E+23	1,429396E+23	2,911497E+23
1893	7,410560E+22	7,410735E+22	7,146986E+22	7,147010E+22	1,482129E+23	1,429400E+23	2,911529E+23
1894	7,410716E+22	7,410740E+22	7,147017E+22	7,147000E+22	1,482146E+23	1,429402E+23	2,911547E+23
1895	7,410483E+22	7,410429E+22	7,147041E+22	7,146950E+22	1,482091E+23	1,429399E+23	2,911490E+23
1896	7,410657E+22	7,410805E+22	7,147123E+22	7,147007E+22	1,482146E+23	1,429413E+23	2,911559E+23
1897	7,410695E+22	7,410573E+22	7,147093E+22	7,147107E+22	1,482127E+23	1,429420E+23	2,911547E+23
1898	7,410503E+22	7,410542E+22	7,147145E+22	7,147118E+22	1,482105E+23	1,429426E+23	2,911531E+23
1899	7,410764E+22	7,410922E+22	7,147163E+22	7,147225E+22	1,482169E+23	1,429439E+23	2,911607E+23
1900	7,410684E+22	7,410578E+22	7,147120E+22	7,147217E+22	1,482126E+23	1,429434E+23	2,911560E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1901	7,410695E+22	7,410764E+22	7,147241E+22	7,147196E+22	1,482146E+23	1,429444E+23	2,911590E+23
1902	7,410955E+22	7,410904E+22	7,147290E+22	7,147242E+22	1,482186E+23	1,429453E+23	2,911639E+23
1903	7,410735E+22	7,410603E+22	7,147246E+22	7,147211E+22	1,482134E+23	1,429446E+23	2,911579E+23
1904	7,410764E+22	7,411000E+22	7,147301E+22	7,147246E+22	1,482176E+23	1,429455E+23	2,911631E+23
1905	7,410848E+22	7,410846E+22	7,147251E+22	7,147295E+22	1,482169E+23	1,429455E+23	2,911624E+23
1906	7,410614E+22	7,410609E+22	7,147271E+22	7,147200E+22	1,482122E+23	1,429447E+23	2,911569E+23
1907	7,410807E+22	7,410923E+22	7,147282E+22	7,147214E+22	1,482173E+23	1,429450E+23	2,911623E+23
1908	7,410775E+22	7,410570E+22	7,147137E+22	7,147165E+22	1,482135E+23	1,429430E+23	2,911565E+23
1909	7,410625E+22	7,410640E+22	7,147118E+22	7,147121E+22	1,482126E+23	1,429424E+23	2,911550E+23
1910	7,410812E+22	7,410883E+22	7,147100E+22	7,147160E+22	1,482169E+23	1,429426E+23	2,911595E+23
1911	7,410605E+22	7,410525E+22	7,147018E+22	7,147062E+22	1,482113E+23	1,429408E+23	2,911521E+23
1912	7,410566E+22	7,410801E+22	7,147135E+22	7,147021E+22	1,482137E+23	1,429416E+23	2,911552E+23
1913	7,410780E+22	7,410729E+22	7,147128E+22	7,147080E+22	1,482151E+23	1,429421E+23	2,911572E+23
1914	7,410565E+22	7,410433E+22	7,147149E+22	7,147056E+22	1,482100E+23	1,429420E+23	2,911520E+23
1915	7,410670E+22	7,410842E+22	7,147211E+22	7,147161E+22	1,482151E+23	1,429437E+23	2,911588E+23
1916	7,410726E+22	7,410648E+22	7,147100E+22	7,147222E+22	1,482137E+23	1,429432E+23	2,911570E+23
1917	7,410571E+22	7,410642E+22	7,147163E+22	7,147224E+22	1,482121E+23	1,429439E+23	2,911560E+23
1918	7,410854E+22	7,410945E+22	7,147271E+22	7,147285E+22	1,482180E+23	1,429456E+23	2,911636E+23
1919	7,410823E+22	7,410615E+22	7,147234E+22	7,147220E+22	1,482144E+23	1,429445E+23	2,911589E+23
1920	7,410755E+22	7,410865E+22	7,147360E+22	7,147225E+22	1,482162E+23	1,429458E+23	2,911620E+23
1921	7,410994E+22	7,410981E+22	7,147345E+22	7,147352E+22	1,482197E+23	1,429470E+23	2,911667E+23
1922	7,410747E+22	7,410687E+22	7,147336E+22	7,147322E+22	1,482143E+23	1,429466E+23	2,911609E+23
1923	7,410740E+22	7,411042E+22	7,147427E+22	7,147356E+22	1,482178E+23	1,429478E+23	2,911656E+23
1924	7,410887E+22	7,410842E+22	7,147313E+22	7,147352E+22	1,482173E+23	1,429467E+23	2,911639E+23
1925	7,410701E+22	7,410638E+22	7,147299E+22	7,147287E+22	1,482134E+23	1,429459E+23	2,911592E+23
1926	7,410881E+22	7,410920E+22	7,147328E+22	7,147303E+22	1,482180E+23	1,429463E+23	2,911643E+23
1927	7,410842E+22	7,410635E+22	7,147156E+22	7,147212E+22	1,482148E+23	1,429437E+23	2,911585E+23
1928	7,410624E+22	7,410774E+22	7,147169E+22	7,147154E+22	1,482140E+23	1,429432E+23	2,911572E+23
1929	7,410847E+22	7,410922E+22	7,147157E+22	7,147208E+22	1,482177E+23	1,429437E+23	2,911613E+23
1930	7,410677E+22	7,410536E+22	7,147152E+22	7,147085E+22	1,482121E+23	1,429424E+23	2,911545E+23
1931	7,410599E+22	7,410798E+22	7,147279E+22	7,147089E+22	1,482140E+23	1,429437E+23	2,911577E+23
1932	7,410815E+22	7,410752E+22	7,147180E+22	7,147168E+22	1,482157E+23	1,429435E+23	2,911591E+23
1933	7,410600E+22	7,410537E+22	7,147153E+22	7,147206E+22	1,482114E+23	1,429436E+23	2,911550E+23
1934	7,410693E+22	7,410895E+22	7,147276E+22	7,147302E+22	1,482159E+23	1,429458E+23	2,911617E+23
1935	7,410809E+22	7,410715E+22	7,147190E+22	7,147277E+22	1,482152E+23	1,429447E+23	2,911599E+23
1936	7,410653E+22	7,410730E+22	7,147290E+22	7,147244E+22	1,482138E+23	1,429453E+23	2,911592E+23
1937	7,410965E+22	7,410971E+22	7,147371E+22	7,147359E+22	1,482194E+23	1,429473E+23	2,911667E+23
1938	7,410919E+22	7,410677E+22	7,147356E+22	7,147304E+22	1,482160E+23	1,429466E+23	2,911626E+23
1939	7,410745E+22	7,410947E+22	7,147469E+22	7,147361E+22	1,482169E+23	1,429483E+23	2,911652E+23
1940	7,410978E+22	7,411064E+22	7,147384E+22	7,147466E+22	1,482204E+23	1,429485E+23	2,911689E+23
1941	7,410785E+22	7,410750E+22	7,147367E+22	7,147429E+22	1,482154E+23	1,429480E+23	2,911633E+23
1942	7,410800E+22	7,410994E+22	7,147525E+22	7,147429E+22	1,482179E+23	1,429495E+23	2,911675E+23
1943	7,411003E+22	7,410841E+22	7,147369E+22	7,147367E+22	1,482184E+23	1,429474E+23	2,911658E+23
1944	7,410763E+22	7,410712E+22	7,147338E+22	7,147304E+22	1,482148E+23	1,429464E+23	2,911612E+23
1945	7,410926E+22	7,410983E+22	7,147333E+22	7,147378E+22	1,482191E+23	1,429471E+23	2,911662E+23
1946	7,410874E+22	7,410725E+22	7,147227E+22	7,147252E+22	1,482160E+23	1,429448E+23	2,911608E+23
1947	7,410607E+22	7,410828E+22	7,147307E+22	7,147203E+22	1,482143E+23	1,429451E+23	2,911594E+23
1948	7,410864E+22	7,410941E+22	7,147252E+22	7,147244E+22	1,482181E+23	1,429450E+23	2,911630E+23
1949	7,410735E+22	7,410570E+22	7,147221E+22	7,147197E+22	1,482130E+23	1,429442E+23	2,911572E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1950	7,410634E+22	7,410783E+22	7,147377E+22	7,147241E+22	1,482142E+23	1,429462E+23	2,911604E+23
1951	7,410864E+22	7,410813E+22	7,147217E+22	7,147287E+22	1,482168E+23	1,429450E+23	2,911618E+23
1952	7,410631E+22	7,410654E+22	7,147204E+22	7,147290E+22	1,482129E+23	1,429449E+23	2,911578E+23
1953	7,410792E+22	7,410922E+22	7,147331E+22	7,147380E+22	1,482171E+23	1,429471E+23	2,911643E+23
1954	7,410946E+22	7,410749E+22	7,147314E+22	7,147298E+22	1,482169E+23	1,429461E+23	2,911631E+23
1955	7,410732E+22	7,410790E+22	7,147432E+22	7,147301E+22	1,482152E+23	1,429473E+23	2,911625E+23
1956	7,411003E+22	7,411051E+22	7,147428E+22	7,147432E+22	1,482205E+23	1,429486E+23	2,911691E+23
1957	7,410929E+22	7,410817E+22	7,147397E+22	7,147447E+22	1,482175E+23	1,429484E+23	2,911659E+23
1958	7,410731E+22	7,410993E+22	7,147577E+22	7,147497E+22	1,482172E+23	1,429507E+23	2,911680E+23
1959	7,411012E+22	7,411087E+22	7,147482E+22	7,147526E+22	1,482210E+23	1,429501E+23	2,911711E+23
1960	7,410849E+22	7,410784E+22	7,147473E+22	7,147464E+22	1,482163E+23	1,429494E+23	2,911657E+23
1961	7,410915E+22	7,410956E+22	7,147572E+22	7,147507E+22	1,482187E+23	1,429508E+23	2,911695E+23
1962	7,411105E+22	7,410870E+22	7,147428E+22	7,147423E+22	1,482198E+23	1,429485E+23	2,911683E+23
1963	7,410772E+22	7,410805E+22	7,147389E+22	7,147383E+22	1,482158E+23	1,429477E+23	2,911635E+23
1964	7,410915E+22	7,411067E+22	7,147348E+22	7,147423E+22	1,482198E+23	1,429477E+23	2,911675E+23
1965	7,410906E+22	7,410803E+22	7,147284E+22	7,147308E+22	1,482171E+23	1,429459E+23	2,911630E+23
1966	7,410644E+22	7,410794E+22	7,147444E+22	7,147269E+22	1,482144E+23	1,429471E+23	2,911615E+23
1967	7,410920E+22	7,410953E+22	7,147340E+22	7,147299E+22	1,482187E+23	1,429464E+23	2,911651E+23
1968	7,410766E+22	7,410651E+22	7,147285E+22	7,147285E+22	1,482142E+23	1,429457E+23	2,911599E+23
1969	7,410677E+22	7,410820E+22	7,147400E+22	7,147386E+22	1,482150E+23	1,429479E+23	2,911628E+23
1970	7,410936E+22	7,410877E+22	7,147300E+22	7,147369E+22	1,482181E+23	1,429467E+23	2,911648E+23
1971	7,410685E+22	7,410710E+22	7,147329E+22	7,147350E+22	1,482139E+23	1,429468E+23	2,911607E+23
1972	7,410872E+22	7,410968E+22	7,147412E+22	7,147417E+22	1,482184E+23	1,429483E+23	2,911667E+23
1973	7,411046E+22	7,410840E+22	7,147381E+22	7,147385E+22	1,482189E+23	1,429477E+23	2,911665E+23
1974	7,410762E+22	7,410825E+22	7,147553E+22	7,147433E+22	1,482159E+23	1,429499E+23	2,911657E+23
1975	7,411007E+22	7,411155E+22	7,147498E+22	7,147537E+22	1,482216E+23	1,429504E+23	2,911720E+23
1976	7,410935E+22	7,410915E+22	7,147487E+22	7,147532E+22	1,482185E+23	1,429502E+23	2,911687E+23
1977	7,410807E+22	7,410959E+22	7,147662E+22	7,147589E+22	1,482177E+23	1,429525E+23	2,911702E+23
1978	7,411143E+22	7,411061E+22	7,147588E+22	7,147555E+22	1,482220E+23	1,429514E+23	2,911735E+23
1979	7,410929E+22	7,410809E+22	7,147551E+22	7,147514E+22	1,482174E+23	1,429506E+23	2,911680E+23
1980	7,410961E+22	7,411027E+22	7,147557E+22	7,147560E+22	1,482199E+23	1,429512E+23	2,911710E+23
1981	7,411127E+22	7,411014E+22	7,147419E+22	7,147510E+22	1,482214E+23	1,429493E+23	2,911707E+23
1982	7,410760E+22	7,410861E+22	7,147496E+22	7,147462E+22	1,482162E+23	1,429496E+23	2,911658E+23
1983	7,410925E+22	7,411117E+22	7,147458E+22	7,147443E+22	1,482204E+23	1,429490E+23	2,911694E+23
1984	7,410937E+22	7,410851E+22	7,147416E+22	7,147350E+22	1,482179E+23	1,429477E+23	2,911655E+23
1985	7,410717E+22	7,410750E+22	7,147526E+22	7,147393E+22	1,482147E+23	1,429492E+23	2,911639E+23
1986	7,410989E+22	7,410959E+22	7,147418E+22	7,147413E+22	1,482195E+23	1,429483E+23	2,911678E+23
1987	7,410783E+22	7,410731E+22	7,147337E+22	7,147411E+22	1,482151E+23	1,429475E+23	2,911626E+23
1988	7,410725E+22	7,410874E+22	7,147395E+22	7,147454E+22	1,482160E+23	1,429485E+23	2,911645E+23
1989	7,411036E+22	7,410949E+22	7,147347E+22	7,147417E+22	1,482198E+23	1,429476E+23	2,911675E+23
1990	7,410782E+22	7,410723E+22	7,147462E+22	7,147392E+22	1,482150E+23	1,429485E+23	2,911636E+23
1991	7,410939E+22	7,411039E+22	7,147505E+22	7,147446E+22	1,482198E+23	1,429495E+23	2,911693E+23
1992	7,411065E+22	7,410976E+22	7,147485E+22	7,147466E+22	1,482204E+23	1,429495E+23	2,911699E+23
1993	7,410781E+22	7,410878E+22	7,147632E+22	7,147585E+22	1,482166E+23	1,429522E+23	2,911687E+23
1994	7,411044E+22	7,411191E+22	7,147630E+22	7,147633E+22	1,482224E+23	1,429526E+23	2,911750E+23
1995	7,410975E+22	7,410943E+22	7,147623E+22	7,147619E+22	1,482192E+23	1,429524E+23	2,911716E+23
1996	7,410891E+22	7,410951E+22	7,147706E+22	7,147657E+22	1,482184E+23	1,429536E+23	2,911720E+23
1997	7,411249E+22	7,411115E+22	7,147611E+22	7,147651E+22	1,482236E+23	1,429526E+23	2,911763E+23
1998	7,410976E+22	7,410856E+22	7,147610E+22	7,147619E+22	1,482183E+23	1,429523E+23	2,911706E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1999	7,410967E+22	7,411149E+22	7,147577E+22	7,147610E+22	1,482212E+23	1,429519E+23	2,911730E+23
2000	7,411136E+22	7,411133E+22	7,147499E+22	7,147535E+22	1,482227E+23	1,429503E+23	2,911730E+23
2001	7,410815E+22	7,410835E+22	7,147602E+22	7,147523E+22	1,482165E+23	1,429512E+23	2,911677E+23
2002	7,411006E+22	7,411093E+22	7,147592E+22	7,147473E+22	1,482210E+23	1,429506E+23	2,911716E+23
2003	7,410973E+22	7,410863E+22	7,147511E+22	7,147434E+22	1,482184E+23	1,429495E+23	2,911678E+23
2004	7,410739E+22	7,410785E+22	7,147516E+22	7,147497E+22	1,482152E+23	1,429501E+23	2,911654E+23
2005	7,411033E+22	7,411056E+22	7,147406E+22	7,147521E+22	1,482209E+23	1,429493E+23	2,911702E+23
2006	7,410817E+22	7,410761E+22	7,147426E+22	7,147489E+22	1,482158E+23	1,429491E+23	2,911649E+23
2007	7,410790E+22	7,410944E+22	7,147479E+22	7,147458E+22	1,482173E+23	1,429494E+23	2,911667E+23
2008	7,411121E+22	7,411038E+22	7,147467E+22	7,147439E+22	1,482216E+23	1,429491E+23	2,911707E+23
2009	7,410866E+22	7,410737E+22	7,147576E+22	7,147509E+22	1,482160E+23	1,429508E+23	2,911669E+23
2010	7,410983E+22	7,411106E+22	7,147624E+22	7,147555E+22	1,482209E+23	1,429518E+23	2,911727E+23
2011	7,411048E+22	7,411078E+22	7,147591E+22	7,147607E+22	1,482213E+23	1,429520E+23	2,911732E+23
2012	7,410808E+22	7,410907E+22	7,147678E+22	7,147691E+22	1,482172E+23	1,429537E+23	2,911708E+23
2013	7,411144E+22	7,411216E+22	7,147691E+22	7,147717E+22	1,482236E+23	1,429541E+23	2,911777E+23
2014	7,411077E+22	7,410929E+22	7,147725E+22	7,147697E+22	1,482201E+23	1,429542E+23	2,911743E+23
2015	7,410974E+22	7,411027E+22	7,147728E+22	7,147695E+22	1,482200E+23	1,429542E+23	2,911742E+23
2016	7,411289E+22	7,411263E+22	7,147655E+22	7,147705E+22	1,482255E+23	1,429536E+23	2,911791E+23
2017	7,411004E+22	7,410927E+22	7,147672E+22	7,147712E+22	1,482193E+23	1,429538E+23	2,911732E+23
2018	7,410996E+22	7,411190E+22	7,147713E+22	7,147634E+22	1,482219E+23	1,429535E+23	2,911753E+23
2019	7,411150E+22	7,411170E+22	7,147654E+22	7,147582E+22	1,482232E+23	1,429524E+23	2,911756E+23
2020	7,410866E+22	7,410806E+22	7,147655E+22	7,147589E+22	1,482167E+23	1,429524E+23	2,911692E+23
2021	7,411064E+22	7,411105E+22	7,147622E+22	7,147587E+22	1,482217E+23	1,429521E+23	2,911738E+23
2022	7,410993E+22	7,410886E+22	7,147558E+22	7,147571E+22	1,482188E+23	1,429513E+23	2,911701E+23
2023	7,410755E+22	7,410874E+22	7,147499E+22	7,147563E+22	1,482163E+23	1,429506E+23	2,911669E+23
2024	7,411090E+22	7,411149E+22	7,147471E+22	7,147547E+22	1,482224E+23	1,429502E+23	2,911726E+23
2025	7,410928E+22	7,410760E+22	7,147521E+22	7,147529E+22	1,482169E+23	1,429505E+23	2,911674E+23
2026	7,410900E+22	7,410973E+22	7,147614E+22	7,147466E+22	1,482187E+23	1,429508E+23	2,911695E+23
2027	7,411153E+22	7,411135E+22	7,147591E+22	7,147521E+22	1,482229E+23	1,429511E+23	2,911740E+23
2028	7,410868E+22	7,410820E+22	7,147618E+22	7,147638E+22	1,482169E+23	1,429526E+23	2,911694E+23
2029	7,410993E+22	7,411206E+22	7,147690E+22	7,147701E+22	1,482220E+23	1,429539E+23	2,911759E+23
2030	7,411071E+22	7,411093E+22	7,147730E+22	7,147738E+22	1,482216E+23	1,429547E+23	2,911763E+23
2031	7,410878E+22	7,410946E+22	7,147754E+22	7,147750E+22	1,482182E+23	1,429550E+23	2,911733E+23
2032	7,411260E+22	7,411270E+22	7,147779E+22	7,147774E+22	1,482253E+23	1,429555E+23	2,911808E+23
2033	7,411188E+22	7,410943E+22	7,147787E+22	7,147806E+22	1,482213E+23	1,429559E+23	2,911772E+23
2034	7,411048E+22	7,411118E+22	7,147795E+22	7,147755E+22	1,482217E+23	1,429555E+23	2,911772E+23
2035	7,411291E+22	7,411378E+22	7,147734E+22	7,147767E+22	1,482267E+23	1,429550E+23	2,911817E+23
2036	7,411024E+22	7,410955E+22	7,147728E+22	7,147755E+22	1,482198E+23	1,429548E+23	2,911746E+23
2037	7,411056E+22	7,411204E+22	7,147792E+22	7,147672E+22	1,482226E+23	1,429546E+23	2,911772E+23
2038	7,411183E+22	7,411132E+22	7,147760E+22	7,147660E+22	1,482231E+23	1,429542E+23	2,911773E+23
2039	7,410886E+22	7,410855E+22	7,147663E+22	7,147656E+22	1,482174E+23	1,429532E+23	2,911706E+23
2040	7,411089E+22	7,411202E+22	7,147637E+22	7,147672E+22	1,482229E+23	1,429531E+23	2,911760E+23
2041	7,411033E+22	7,410923E+22	7,147597E+22	7,147675E+22	1,482196E+23	1,429527E+23	2,911723E+23
2042	7,410832E+22	7,410924E+22	7,147600E+22	7,147577E+22	1,482176E+23	1,429518E+23	2,911693E+23
2043	7,411147E+22	7,411215E+22	7,147605E+22	7,147575E+22	1,482236E+23	1,429518E+23	2,911754E+23
2044	7,411000E+22	7,410789E+22	7,147598E+22	7,147595E+22	1,482179E+23	1,429519E+23	2,911698E+23
2045	7,410953E+22	7,411045E+22	7,147694E+22	7,147583E+22	1,482200E+23	1,429528E+23	2,911727E+23
2046	7,411140E+22	7,411202E+22	7,147698E+22	7,147688E+22	1,482234E+23	1,429539E+23	2,911773E+23
2047	7,410868E+22	7,410914E+22	7,147662E+22	7,147747E+22	1,482178E+23	1,429541E+23	2,911719E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2048	7,411061E+22	7,411256E+22	7,147793E+22	7,147779E+22	1,482232E+23	1,429557E+23	2,911789E+23
2049	7,411202E+22	7,411062E+22	7,147833E+22	7,147827E+22	1,482226E+23	1,429566E+23	2,911792E+23
2050	7,411027E+22	7,410960E+22	7,147844E+22	7,147781E+22	1,482199E+23	1,429563E+23	2,911761E+23
2051	7,411324E+22	7,411375E+22	7,147858E+22	7,147841E+22	1,482270E+23	1,429570E+23	2,911840E+23
2052	7,411219E+22	7,411049E+22	7,147790E+22	7,147879E+22	1,482227E+23	1,429567E+23	2,911794E+23
2053	7,411060E+22	7,411220E+22	7,147857E+22	7,147820E+22	1,482228E+23	1,429568E+23	2,911796E+23
2054	7,411282E+22	7,411409E+22	7,147880E+22	7,147839E+22	1,482269E+23	1,429572E+23	2,911841E+23
2055	7,411040E+22	7,410984E+22	7,147806E+22	7,147794E+22	1,482202E+23	1,429560E+23	2,911762E+23
2056	7,411107E+22	7,411219E+22	7,147882E+22	7,147751E+22	1,482233E+23	1,429563E+23	2,911796E+23
2057	7,411234E+22	7,411112E+22	7,147806E+22	7,147802E+22	1,482235E+23	1,429561E+23	2,911795E+23
2058	7,410937E+22	7,410907E+22	7,147685E+22	7,147737E+22	1,482184E+23	1,429542E+23	2,911727E+23
2059	7,411113E+22	7,411287E+22	7,147689E+22	7,147733E+22	1,482240E+23	1,429542E+23	2,911782E+23
2060	7,411104E+22	7,410947E+22	7,147628E+22	7,147698E+22	1,482205E+23	1,429533E+23	2,911738E+23
2061	7,410936E+22	7,410964E+22	7,147686E+22	7,147591E+22	1,482190E+23	1,429528E+23	2,911718E+23
2062	7,411193E+22	7,411244E+22	7,147733E+22	7,147647E+22	1,482244E+23	1,429538E+23	2,911782E+23
2063	7,411003E+22	7,410897E+22	7,147652E+22	7,147680E+22	1,482190E+23	1,429533E+23	2,911723E+23
2064	7,410958E+22	7,411159E+22	7,147778E+22	7,147709E+22	1,482212E+23	1,429549E+23	2,911760E+23
2065	7,411161E+22	7,411220E+22	7,147807E+22	7,147841E+22	1,482238E+23	1,429565E+23	2,911803E+23
2066	7,410961E+22	7,410937E+22	7,147790E+22	7,147814E+22	1,482190E+23	1,429560E+23	2,911750E+23
2067	7,411163E+22	7,411286E+22	7,147911E+22	7,147842E+22	1,482245E+23	1,429575E+23	2,911820E+23
2068	7,411315E+22	7,411078E+22	7,147869E+22	7,147909E+22	1,482239E+23	1,429578E+23	2,911817E+23
2069	7,411119E+22	7,411059E+22	7,147879E+22	7,147868E+22	1,482218E+23	1,429575E+23	2,911793E+23
2070	7,411320E+22	7,411471E+22	7,147930E+22	7,147954E+22	1,482279E+23	1,429588E+23	2,911868E+23
2071	7,411203E+22	7,411167E+22	7,147838E+22	7,147928E+22	1,482237E+23	1,429577E+23	2,911814E+23
2072	7,411101E+22	7,411271E+22	7,147971E+22	7,147858E+22	1,482237E+23	1,429583E+23	2,911820E+23
2073	7,411340E+22	7,411364E+22	7,147994E+22	7,147919E+22	1,482270E+23	1,429591E+23	2,911862E+23
2074	7,411123E+22	7,410984E+22	7,147885E+22	7,147846E+22	1,482211E+23	1,429573E+23	2,911784E+23
2075	7,411130E+22	7,411274E+22	7,147934E+22	7,147841E+22	1,482240E+23	1,429578E+23	2,911818E+23
2076	7,411259E+22	7,411162E+22	7,147790E+22	7,147897E+22	1,482242E+23	1,429569E+23	2,911811E+23
2077	7,410991E+22	7,410977E+22	7,147724E+22	7,147786E+22	1,482197E+23	1,429551E+23	2,911748E+23
2078	7,411147E+22	7,411316E+22	7,147807E+22	7,147781E+22	1,482246E+23	1,429559E+23	2,911805E+23
2079	7,411155E+22	7,411013E+22	7,147700E+22	7,147712E+22	1,482217E+23	1,429541E+23	2,911758E+23
2080	7,411001E+22	7,411022E+22	7,147798E+22	7,147666E+22	1,482202E+23	1,429546E+23	2,911749E+23
2081	7,411216E+22	7,411277E+22	7,147832E+22	7,147802E+22	1,482249E+23	1,429563E+23	2,911813E+23
2082	7,411035E+22	7,410967E+22	7,147728E+22	7,147796E+22	1,482200E+23	1,429552E+23	2,911753E+23
2083	7,410979E+22	7,411215E+22	7,147888E+22	7,147813E+22	1,482219E+23	1,429570E+23	2,911790E+23
2084	7,411255E+22	7,411208E+22	7,147860E+22	7,147913E+22	1,482246E+23	1,429577E+23	2,911824E+23
2085	7,411098E+22	7,410954E+22	7,147855E+22	7,147858E+22	1,482205E+23	1,429571E+23	2,911777E+23
2086	7,411240E+22	7,411333E+22	7,147996E+22	7,147931E+22	1,482257E+23	1,429593E+23	2,911850E+23
2087	7,411341E+22	7,411224E+22	7,147880E+22	7,147969E+22	1,482256E+23	1,429585E+23	2,911841E+23
2088	7,411140E+22	7,411204E+22	7,147955E+22	7,147952E+22	1,482234E+23	1,429591E+23	2,911825E+23
2089	7,411324E+22	7,411515E+22	7,148060E+22	7,148052E+22	1,482284E+23	1,429611E+23	2,911895E+23
2090	7,411258E+22	7,411192E+22	7,147984E+22	7,147968E+22	1,482245E+23	1,429595E+23	2,911840E+23
2091	7,411147E+22	7,411276E+22	7,148112E+22	7,147926E+22	1,482242E+23	1,429604E+23	2,911846E+23
2092	7,411402E+22	7,411333E+22	7,148028E+22	7,148027E+22	1,482274E+23	1,429606E+23	2,911879E+23
2093	7,411188E+22	7,411028E+22	7,147896E+22	7,147949E+22	1,482222E+23	1,429585E+23	2,911806E+23
2094	7,411140E+22	7,411326E+22	7,147961E+22	7,147954E+22	1,482247E+23	1,429592E+23	2,911838E+23
2095	7,411279E+22	7,411246E+22	7,147797E+22	7,147916E+22	1,482252E+23	1,429571E+23	2,911824E+23
2096	7,411085E+22	7,411030E+22	7,147811E+22	7,147790E+22	1,482211E+23	1,429560E+23	2,911772E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2097	7,411219E+22	7,411304E+22	7,147920E+22	7,147828E+22	1,482252E+23	1,429575E+23	2,911827E+23
2098	7,411225E+22	7,411075E+22	7,147801E+22	7,147758E+22	1,482230E+23	1,429556E+23	2,911786E+23
2099	7,411002E+22	7,411116E+22	7,147890E+22	7,147767E+22	1,482212E+23	1,429566E+23	2,911777E+23
2100	7,411205E+22	7,411323E+22	7,147870E+22	7,147934E+22	1,482253E+23	1,429580E+23	2,911833E+23
2101	7,411085E+22	7,411018E+22	7,147815E+22	7,147888E+22	1,482210E+23	1,429570E+23	2,911781E+23
2102	7,411034E+22	7,411214E+22	7,148005E+22	7,147916E+22	1,482225E+23	1,429592E+23	2,911817E+23
2103	7,411336E+22	7,411258E+22	7,147915E+22	7,147968E+22	1,482259E+23	1,429588E+23	2,911848E+23
2104	7,411213E+22	7,411035E+22	7,147927E+22	7,147942E+22	1,482225E+23	1,429587E+23	2,911812E+23
2105	7,411285E+22	7,411406E+22	7,148070E+22	7,148058E+22	1,482269E+23	1,429613E+23	2,911882E+23
2106	7,411384E+22	7,411347E+22	7,147962E+22	7,148036E+22	1,482273E+23	1,429600E+23	2,911873E+23
2107	7,411162E+22	7,411279E+22	7,148097E+22	7,148008E+22	1,482244E+23	1,429610E+23	2,911855E+23
2108	7,411381E+22	7,411496E+22	7,148157E+22	7,148111E+22	1,482288E+23	1,429627E+23	2,911914E+23
2109	7,411356E+22	7,411187E+22	7,148077E+22	7,148026E+22	1,482254E+23	1,429610E+23	2,911865E+23
2110	7,411180E+22	7,411280E+22	7,148181E+22	7,148047E+22	1,482246E+23	1,429623E+23	2,911869E+23
2111	7,411408E+22	7,411423E+22	7,148004E+22	7,148107E+22	1,482283E+23	1,429611E+23	2,911894E+23
2112	7,411230E+22	7,411123E+22	7,147920E+22	7,148024E+22	1,482235E+23	1,429594E+23	2,911830E+23
2113	7,411180E+22	7,411358E+22	7,148042E+22	7,148017E+22	1,482254E+23	1,429606E+23	2,911860E+23
2114	7,411368E+22	7,411293E+22	7,147895E+22	7,147905E+22	1,482266E+23	1,429580E+23	2,911846E+23
2115	7,411140E+22	7,411072E+22	7,147947E+22	7,147823E+22	1,482221E+23	1,429577E+23	2,911798E+23
2116	7,411251E+22	7,411320E+22	7,147978E+22	7,147922E+22	1,482257E+23	1,429590E+23	2,911847E+23
2117	7,411246E+22	7,411139E+22	7,147857E+22	7,147874E+22	1,482239E+23	1,429573E+23	2,911812E+23
2118	7,410979E+22	7,411160E+22	7,147967E+22	7,147919E+22	1,482214E+23	1,429589E+23	2,911802E+23
2119	7,411227E+22	7,411364E+22	7,147909E+22	7,147997E+22	1,482259E+23	1,429591E+23	2,911850E+23
2120	7,411208E+22	7,411043E+22	7,147898E+22	7,147940E+22	1,482225E+23	1,429584E+23	2,911809E+23
2121	7,411150E+22	7,411216E+22	7,148090E+22	7,147995E+22	1,482237E+23	1,429608E+23	2,911845E+23
2122	7,411442E+22	7,411351E+22	7,147984E+22	7,148014E+22	1,482279E+23	1,429600E+23	2,911879E+23
2123	7,411247E+22	7,411176E+22	7,148030E+22	7,148018E+22	1,482242E+23	1,429605E+23	2,911847E+23
2124	7,411296E+22	7,411484E+22	7,148145E+22	7,148150E+22	1,482278E+23	1,429630E+23	2,911908E+23
2125	7,411433E+22	7,411408E+22	7,148102E+22	7,148100E+22	1,482284E+23	1,429620E+23	2,911904E+23
2126	7,411192E+22	7,411279E+22	7,148246E+22	7,148116E+22	1,482247E+23	1,429636E+23	2,911883E+23
2127	7,411415E+22	7,411511E+22	7,148216E+22	7,148191E+22	1,482293E+23	1,429641E+23	2,911933E+23
2128	7,411439E+22	7,411232E+22	7,148119E+22	7,148148E+22	1,482267E+23	1,429627E+23	2,911894E+23
2129	7,411215E+22	7,411312E+22	7,148195E+22	7,148187E+22	1,482253E+23	1,429638E+23	2,911891E+23
2130	7,411464E+22	7,411509E+22	7,148028E+22	7,148151E+22	1,482297E+23	1,429618E+23	2,911915E+23
2131	7,411291E+22	7,411191E+22	7,148009E+22	7,148014E+22	1,482248E+23	1,429602E+23	2,911850E+23
2132	7,411252E+22	7,411348E+22	7,148104E+22	7,148014E+22	1,482260E+23	1,429612E+23	2,911872E+23
2133	7,411452E+22	7,411332E+22	7,147989E+22	7,147919E+22	1,482278E+23	1,429591E+23	2,911869E+23
2134	7,411133E+22	7,411118E+22	7,148034E+22	7,147937E+22	1,482225E+23	1,429597E+23	2,911822E+23
2135	7,411200E+22	7,411410E+22	7,148003E+22	7,148020E+22	1,482261E+23	1,429602E+23	2,911863E+23
2136	7,411267E+22	7,411211E+22	7,147926E+22	7,147990E+22	1,482248E+23	1,429592E+23	2,911839E+23
2137	7,411021E+22	7,411151E+22	7,148069E+22	7,148029E+22	1,482217E+23	1,429610E+23	2,911827E+23
2138	7,411349E+22	7,411386E+22	7,148007E+22	7,148033E+22	1,482274E+23	1,429604E+23	2,911878E+23
2139	7,411321E+22	7,411097E+22	7,148014E+22	7,147990E+22	1,482242E+23	1,429600E+23	2,911842E+23
2140	7,411235E+22	7,411270E+22	7,148134E+22	7,148091E+22	1,482251E+23	1,429623E+23	2,911873E+23
2141	7,411505E+22	7,411475E+22	7,148054E+22	7,148107E+22	1,482298E+23	1,429616E+23	2,911914E+23
2142	7,411238E+22	7,411269E+22	7,148146E+22	7,148147E+22	1,482251E+23	1,429629E+23	2,911880E+23
2143	7,411302E+22	7,411542E+22	7,148237E+22	7,148202E+22	1,482284E+23	1,429644E+23	2,911928E+23
2144	7,411525E+22	7,411424E+22	7,148214E+22	7,148181E+22	1,482295E+23	1,429640E+23	2,911934E+23
2145	7,411265E+22	7,411265E+22	7,148332E+22	7,148237E+22	1,482253E+23	1,429657E+23	2,911910E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2146	7,411494E+22	7,411570E+22	7,148241E+22	7,148262E+22	1,482306E+23	1,429650E+23	2,911957E+23
2147	7,411469E+22	7,411335E+22	7,148166E+22	7,148214E+22	1,482280E+23	1,429638E+23	2,911918E+23
2148	7,411253E+22	7,411364E+22	7,148210E+22	7,148238E+22	1,482262E+23	1,429645E+23	2,911907E+23
2149	7,411538E+22	7,411552E+22	7,148119E+22	7,148149E+22	1,482309E+23	1,429627E+23	2,911936E+23
2150	7,411322E+22	7,411213E+22	7,148134E+22	7,148065E+22	1,482254E+23	1,429620E+23	2,911874E+23
2151	7,411262E+22	7,411383E+22	7,148164E+22	7,148048E+22	1,482264E+23	1,429621E+23	2,911886E+23
2152	7,411483E+22	7,411393E+22	7,148050E+22	7,148033E+22	1,482288E+23	1,429608E+23	2,911896E+23
2153	7,411120E+22	7,411155E+22	7,148086E+22	7,148095E+22	1,482227E+23	1,429618E+23	2,911846E+23
2154	7,411237E+22	7,411454E+22	7,148060E+22	7,148094E+22	1,482269E+23	1,429615E+23	2,911885E+23
2155	7,411344E+22	7,411239E+22	7,148040E+22	7,148028E+22	1,482258E+23	1,429607E+23	2,911865E+23
2156	7,411145E+22	7,411133E+22	7,148118E+22	7,148076E+22	1,482228E+23	1,429619E+23	2,911847E+23
2157	7,411483E+22	7,411438E+22	7,148084E+22	7,148076E+22	1,482292E+23	1,429616E+23	2,911908E+23
2158	7,411355E+22	7,411209E+22	7,148092E+22	7,148104E+22	1,482256E+23	1,429620E+23	2,911876E+23
2159	7,411213E+22	7,411411E+22	7,148179E+22	7,148169E+22	1,482262E+23	1,429635E+23	2,911897E+23
2160	7,411537E+22	7,411592E+22	7,148166E+22	7,148212E+22	1,482313E+23	1,429638E+23	2,911951E+23
2161	7,411269E+22	7,411283E+22	7,148292E+22	7,148267E+22	1,482255E+23	1,429656E+23	2,911911E+23
2162	7,411382E+22	7,411557E+22	7,148361E+22	7,148271E+22	1,482294E+23	1,429663E+23	2,911957E+23
2163	7,411606E+22	7,411456E+22	7,148324E+22	7,148264E+22	1,482306E+23	1,429659E+23	2,911965E+23
2164	7,411331E+22	7,411277E+22	7,148332E+22	7,148355E+22	1,482261E+23	1,429669E+23	2,911929E+23
2165	7,411564E+22	7,411645E+22	7,148268E+22	7,148336E+22	1,482321E+23	1,429660E+23	2,911981E+23
2166	7,411490E+22	7,411404E+22	7,148225E+22	7,148280E+22	1,482289E+23	1,429650E+23	2,911940E+23
2167	7,411286E+22	7,411407E+22	7,148261E+22	7,148214E+22	1,482269E+23	1,429648E+23	2,911917E+23
2168	7,411628E+22	7,411592E+22	7,148203E+22	7,148168E+22	1,482322E+23	1,429637E+23	2,911959E+23
2169	7,411348E+22	7,411228E+22	7,148223E+22	7,148158E+22	1,482258E+23	1,429638E+23	2,911896E+23
2170	7,411269E+22	7,411455E+22	7,148221E+22	7,148126E+22	1,482272E+23	1,429635E+23	2,911907E+23
2171	7,411466E+22	7,411476E+22	7,148138E+22	7,148127E+22	1,482294E+23	1,429626E+23	2,911921E+23
2172	7,411148E+22	7,411163E+22	7,148133E+22	7,148195E+22	1,482231E+23	1,429633E+23	2,911864E+23
2173	7,411343E+22	7,411457E+22	7,148159E+22	7,148141E+22	1,482280E+23	1,429630E+23	2,911910E+23
2174	7,411420E+22	7,411263E+22	7,148141E+22	7,148119E+22	1,482268E+23	1,429626E+23	2,911894E+23
2175	7,411210E+22	7,411199E+22	7,148154E+22	7,148131E+22	1,482241E+23	1,429629E+23	2,911869E+23
2176	7,411555E+22	7,411552E+22	7,148132E+22	7,148193E+22	1,482311E+23	1,429633E+23	2,911943E+23
2177	7,411360E+22	7,411313E+22	7,148177E+22	7,148250E+22	1,482267E+23	1,429643E+23	2,911910E+23
2178	7,411252E+22	7,411493E+22	7,148282E+22	7,148224E+22	1,482274E+23	1,429651E+23	2,911925E+23
2179	7,411591E+22	7,411625E+22	7,148329E+22	7,148253E+22	1,482322E+23	1,429658E+23	2,911980E+23
2180	7,411367E+22	7,411258E+22	7,148373E+22	7,148348E+22	1,482262E+23	1,429672E+23	2,911935E+23
2181	7,411494E+22	7,411565E+22	7,148436E+22	7,148347E+22	1,482306E+23	1,429678E+23	2,911984E+23
2182	7,411628E+22	7,411532E+22	7,148373E+22	7,148395E+22	1,482316E+23	1,429677E+23	2,911993E+23
2183	7,411337E+22	7,411377E+22	7,148325E+22	7,148410E+22	1,482271E+23	1,429673E+23	2,911945E+23
2184	7,411625E+22	7,411728E+22	7,148326E+22	7,148390E+22	1,482335E+23	1,429672E+23	2,912007E+23
2185	7,411529E+22	7,411437E+22	7,148336E+22	7,148335E+22	1,482297E+23	1,429667E+23	2,911964E+23
2186	7,411350E+22	7,411443E+22	7,148365E+22	7,148227E+22	1,482279E+23	1,429659E+23	2,911938E+23
2187	7,411655E+22	7,411643E+22	7,148326E+22	7,148229E+22	1,482330E+23	1,429655E+23	2,911985E+23
2188	7,411361E+22	7,411252E+22	7,148249E+22	7,148294E+22	1,482261E+23	1,429654E+23	2,911916E+23
2189	7,411297E+22	7,411492E+22	7,148277E+22	7,148235E+22	1,482279E+23	1,429651E+23	2,911930E+23
2190	7,411478E+22	7,411501E+22	7,148217E+22	7,148234E+22	1,482298E+23	1,429645E+23	2,911943E+23
2191	7,411213E+22	7,411167E+22	7,148167E+22	7,148212E+22	1,482238E+23	1,429638E+23	2,911876E+23
2192	7,411482E+22	7,411498E+22	7,148209E+22	7,148196E+22	1,482298E+23	1,429641E+23	2,911939E+23
2193	7,411490E+22	7,411326E+22	7,148199E+22	7,148212E+22	1,482282E+23	1,429641E+23	2,911923E+23
2194	7,411246E+22	7,411328E+22	7,148216E+22	7,148189E+22	1,482257E+23	1,429640E+23	2,911898E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2195	7,411555E+22	7,411686E+22	7,148262E+22	7,148254E+22	1,482324E+23	1,429652E+23	2,911976E+23
2196	7,411386E+22	7,411341E+22	7,148289E+22	7,148345E+22	1,482273E+23	1,429663E+23	2,911936E+23
2197	7,411337E+22	7,411490E+22	7,148444E+22	7,148297E+22	1,482283E+23	1,429674E+23	2,911957E+23
2198	7,411642E+22	7,411631E+22	7,148458E+22	7,148382E+22	1,482327E+23	1,429684E+23	2,912011E+23
2199	7,411421E+22	7,411287E+22	7,148398E+22	7,148444E+22	1,482271E+23	1,429684E+23	2,911955E+23
2200	7,411575E+22	7,411653E+22	7,148440E+22	7,148482E+22	1,482323E+23	1,429692E+23	2,912015E+23
2201	7,411651E+22	7,411615E+22	7,148409E+22	7,148515E+22	1,482327E+23	1,429692E+23	2,912019E+23
2202	7,411401E+22	7,411455E+22	7,148395E+22	7,148413E+22	1,482286E+23	1,429681E+23	2,911966E+23
2203	7,411694E+22	7,411775E+22	7,148463E+22	7,148373E+22	1,482347E+23	1,429684E+23	2,912031E+23
2204	7,411599E+22	7,411440E+22	7,148414E+22	7,148383E+22	1,482304E+23	1,429680E+23	2,911984E+23
2205	7,411407E+22	7,411471E+22	7,148454E+22	7,148295E+22	1,482288E+23	1,429675E+23	2,911963E+23
2206	7,411606E+22	7,411714E+22	7,148394E+22	7,148369E+22	1,482332E+23	1,429676E+23	2,912008E+23
2207	7,411336E+22	7,411306E+22	7,148265E+22	7,148378E+22	1,482264E+23	1,429664E+23	2,911928E+23
2208	7,411367E+22	7,411509E+22	7,148327E+22	7,148323E+22	1,482288E+23	1,429665E+23	2,911953E+23
2209	7,411545E+22	7,411497E+22	7,148305E+22	7,148319E+22	1,482304E+23	1,429662E+23	2,911967E+23
2210	7,411324E+22	7,411209E+22	7,148226E+22	7,148225E+22	1,482253E+23	1,429645E+23	2,911898E+23
2211	7,411547E+22	7,411577E+22	7,148302E+22	7,148237E+22	1,482312E+23	1,429654E+23	2,911966E+23
2212	7,411525E+22	7,411414E+22	7,148240E+22	7,148319E+22	1,482294E+23	1,429656E+23	2,911950E+23
2213	7,411290E+22	7,411400E+22	7,148325E+22	7,148268E+22	1,482269E+23	1,429659E+23	2,911928E+23
2214	7,411550E+22	7,411732E+22	7,148413E+22	7,148355E+22	1,482328E+23	1,429677E+23	2,912005E+23
2215	7,411440E+22	7,411343E+22	7,148376E+22	7,148400E+22	1,482278E+23	1,429678E+23	2,911956E+23
2216	7,411453E+22	7,411505E+22	7,148510E+22	7,148413E+22	1,482296E+23	1,429692E+23	2,911988E+23
2217	7,411691E+22	7,411679E+22	7,148513E+22	7,148532E+22	1,482337E+23	1,429705E+23	2,912041E+23
2218	7,411472E+22	7,411405E+22	7,148420E+22	7,148519E+22	1,482288E+23	1,429694E+23	2,911982E+23
2219	7,411615E+22	7,411772E+22	7,148532E+22	7,148527E+22	1,482339E+23	1,429706E+23	2,912045E+23
2220	7,411715E+22	7,411663E+22	7,148492E+22	7,148566E+22	1,482338E+23	1,429706E+23	2,912044E+23
2221	7,411498E+22	7,411475E+22	7,148541E+22	7,148436E+22	1,482297E+23	1,429698E+23	2,911995E+23
2222	7,411710E+22	7,411807E+22	7,148597E+22	7,148460E+22	1,482352E+23	1,429706E+23	2,912057E+23
2223	7,411602E+22	7,411466E+22	7,148452E+22	7,148472E+22	1,482307E+23	1,429692E+23	2,911999E+23
2224	7,411437E+22	7,411531E+22	7,148470E+22	7,148443E+22	1,482297E+23	1,429691E+23	2,911988E+23
2225	7,411601E+22	7,411739E+22	7,148431E+22	7,148497E+22	1,482334E+23	1,429693E+23	2,912027E+23
2226	7,411402E+22	7,411323E+22	7,148313E+22	7,148385E+22	1,482273E+23	1,429670E+23	2,911942E+23
2227	7,411473E+22	7,411531E+22	7,148418E+22	7,148308E+22	1,482300E+23	1,429673E+23	2,911973E+23
2228	7,411648E+22	7,411508E+22	7,148340E+22	7,148361E+22	1,482316E+23	1,429670E+23	2,911986E+23
2229	7,411408E+22	7,411281E+22	7,148308E+22	7,148274E+22	1,482269E+23	1,429658E+23	2,911927E+23
2230	7,411511E+22	7,411700E+22	7,148398E+22	7,148341E+22	1,482321E+23	1,429674E+23	2,911995E+23
2231	7,411503E+22	7,411496E+22	7,148317E+22	7,148392E+22	1,482300E+23	1,429671E+23	2,911971E+23
2232	7,411347E+22	7,411442E+22	7,148439E+22	7,148382E+22	1,482279E+23	1,429682E+23	2,911961E+23
2233	7,411587E+22	7,411730E+22	7,148545E+22	7,148493E+22	1,482332E+23	1,429704E+23	2,912035E+23
2234	7,411530E+22	7,411374E+22	7,148460E+22	7,148486E+22	1,482290E+23	1,429695E+23	2,911985E+23
2235	7,411535E+22	7,411574E+22	7,148584E+22	7,148517E+22	1,482311E+23	1,429710E+23	2,912021E+23
2236	7,411755E+22	7,411755E+22	7,148527E+22	7,148663E+22	1,482351E+23	1,429719E+23	2,912070E+23
2237	7,411569E+22	7,411481E+22	7,148505E+22	7,148567E+22	1,482305E+23	1,429707E+23	2,912012E+23
2238	7,411651E+22	7,411830E+22	7,148664E+22	7,148564E+22	1,482348E+23	1,429723E+23	2,912071E+23
2239	7,411784E+22	7,411690E+22	7,148574E+22	7,148568E+22	1,482347E+23	1,429714E+23	2,912062E+23
2240	7,411584E+22	7,411509E+22	7,148604E+22	7,148519E+22	1,482309E+23	1,429712E+23	2,912022E+23
2241	7,411684E+22	7,411853E+22	7,148662E+22	7,148597E+22	1,482354E+23	1,429726E+23	2,912080E+23
2242	7,411596E+22	7,411547E+22	7,148479E+22	7,148543E+22	1,482314E+23	1,429702E+23	2,912016E+23
2243	7,411452E+22	7,411571E+22	7,148544E+22	7,148495E+22	1,482302E+23	1,429704E+23	2,912006E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2244	7,411668E+22	7,411723E+22	7,148489E+22	7,148556E+22	1,482339E+23	1,429705E+23	2,912044E+23
2245	7,411532E+22	7,411320E+22	7,148407E+22	7,148397E+22	1,482285E+23	1,429680E+23	2,911966E+23
2246	7,411519E+22	7,411581E+22	7,148508E+22	7,148370E+22	1,482310E+23	1,429688E+23	2,911998E+23
2247	7,411676E+22	7,411590E+22	7,148360E+22	7,148425E+22	1,482327E+23	1,429678E+23	2,912005E+23
2248	7,411439E+22	7,411393E+22	7,148347E+22	7,148404E+22	1,482283E+23	1,429675E+23	2,911958E+23
2249	7,411480E+22	7,411762E+22	7,148508E+22	7,148469E+22	1,482324E+23	1,429698E+23	2,912022E+23
2250	7,411551E+22	7,411528E+22	7,148433E+22	7,148435E+22	1,482308E+23	1,429687E+23	2,911995E+23
2251	7,411442E+22	7,411455E+22	7,148571E+22	7,148439E+22	1,482290E+23	1,429701E+23	2,911991E+23
2252	7,411690E+22	7,411732E+22	7,148600E+22	7,148611E+22	1,482342E+23	1,429721E+23	2,912063E+23
2253	7,411636E+22	7,411443E+22	7,148530E+22	7,148579E+22	1,482308E+23	1,429711E+23	2,912019E+23
2254	7,411554E+22	7,411698E+22	7,148657E+22	7,148622E+22	1,482325E+23	1,429728E+23	2,912053E+23
2255	7,411797E+22	7,411829E+22	7,148586E+22	7,148704E+22	1,482363E+23	1,429729E+23	2,912092E+23
2256	7,411664E+22	7,411548E+22	7,148609E+22	7,148632E+22	1,482321E+23	1,429724E+23	2,912045E+23
2257	7,411683E+22	7,411856E+22	7,148791E+22	7,148643E+22	1,482354E+23	1,429743E+23	2,912097E+23
2258	7,411822E+22	7,411731E+22	7,148659E+22	7,148621E+22	1,482355E+23	1,429728E+23	2,912083E+23
2259	7,411603E+22	7,411574E+22	7,148676E+22	7,148617E+22	1,482318E+23	1,429729E+23	2,912047E+23
2260	7,411688E+22	7,411879E+22	7,148672E+22	7,148730E+22	1,482357E+23	1,429740E+23	2,912097E+23
2261	7,411665E+22	7,411557E+22	7,148551E+22	7,148595E+22	1,482322E+23	1,429715E+23	2,912037E+23
2262	7,411504E+22	7,411584E+22	7,148625E+22	7,148525E+22	1,482309E+23	1,429715E+23	2,912024E+23
2263	7,411760E+22	7,411722E+22	7,148515E+22	7,148554E+22	1,482348E+23	1,429707E+23	2,912055E+23
2264	7,411634E+22	7,411393E+22	7,148432E+22	7,148460E+22	1,482303E+23	1,429689E+23	2,911992E+23
2265	7,411497E+22	7,411680E+22	7,148568E+22	7,148474E+22	1,482318E+23	1,429704E+23	2,912022E+23
2266	7,411659E+22	7,411714E+22	7,148430E+22	7,148480E+22	1,482337E+23	1,429691E+23	2,912028E+23
2267	7,411452E+22	7,411464E+22	7,148486E+22	7,148476E+22	1,482292E+23	1,429696E+23	2,911988E+23
2268	7,411527E+22	7,411747E+22	7,148629E+22	7,148579E+22	1,482327E+23	1,429721E+23	2,912048E+23
2269	7,411675E+22	7,411512E+22	7,148571E+22	7,148519E+22	1,482319E+23	1,429709E+23	2,912028E+23
2270	7,411508E+22	7,411487E+22	7,148666E+22	7,148563E+22	1,482299E+23	1,429723E+23	2,912022E+23
2271	7,411763E+22	7,411798E+22	7,148608E+22	7,148716E+22	1,482356E+23	1,429732E+23	2,912089E+23
2272	7,411728E+22	7,411562E+22	7,148539E+22	7,148691E+22	1,482329E+23	1,429723E+23	2,912052E+23
2273	7,411577E+22	7,411775E+22	7,148751E+22	7,148699E+22	1,482335E+23	1,429745E+23	2,912080E+23
2274	7,411869E+22	7,411897E+22	7,148691E+22	7,148690E+22	1,482377E+23	1,429738E+23	2,912115E+23
2275	7,411739E+22	7,411594E+22	7,148735E+22	7,148662E+22	1,482333E+23	1,429740E+23	2,912073E+23
2276	7,411712E+22	7,411878E+22	7,148863E+22	7,148754E+22	1,482359E+23	1,429762E+23	2,912121E+23
2277	7,411857E+22	7,411785E+22	7,148734E+22	7,148719E+22	1,482364E+23	1,429745E+23	2,912109E+23
2278	7,411575E+22	7,411644E+22	7,148745E+22	7,148723E+22	1,482322E+23	1,429747E+23	2,912069E+23
2279	7,411725E+22	7,411886E+22	7,148705E+22	7,148777E+22	1,482361E+23	1,429748E+23	2,912109E+23
2280	7,411771E+22	7,411581E+22	7,148599E+22	7,148652E+22	1,482335E+23	1,429725E+23	2,912060E+23
2281	7,411555E+22	7,411604E+22	7,148701E+22	7,148591E+22	1,482316E+23	1,429729E+23	2,912045E+23
2282	7,411813E+22	7,411792E+22	7,148563E+22	7,148580E+22	1,482361E+23	1,429714E+23	2,912075E+23
2283	7,411658E+22	7,411506E+22	7,148501E+22	7,148538E+22	1,482316E+23	1,429704E+23	2,912020E+23
2284	7,411491E+22	7,411741E+22	7,148630E+22	7,148588E+22	1,482323E+23	1,429722E+23	2,912045E+23
2285	7,411714E+22	7,411733E+22	7,148571E+22	7,148538E+22	1,482345E+23	1,429711E+23	2,912056E+23
2286	7,411501E+22	7,411474E+22	7,148628E+22	7,148544E+22	1,482298E+23	1,429717E+23	2,912015E+23
2287	7,411627E+22	7,411716E+22	7,148681E+22	7,148647E+22	1,482334E+23	1,429733E+23	2,912067E+23
2288	7,411788E+22	7,411578E+22	7,148597E+22	7,148645E+22	1,482337E+23	1,429724E+23	2,912061E+23
2289	7,411527E+22	7,411594E+22	7,148696E+22	7,148692E+22	1,482312E+23	1,429739E+23	2,912051E+23
2290	7,411790E+22	7,411919E+22	7,148656E+22	7,148759E+22	1,482371E+23	1,429741E+23	2,912112E+23
2291	7,411785E+22	7,411671E+22	7,148666E+22	7,148729E+22	1,482346E+23	1,429740E+23	2,912085E+23
2292	7,411637E+22	7,411802E+22	7,148876E+22	7,148768E+22	1,482344E+23	1,429764E+23	2,912108E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2293	7,411960E+22	7,411915E+22	7,148848E+22	7,148751E+22	1,482387E+23	1,429760E+23	2,912147E+23
2294	7,411752E+22	7,411647E+22	7,148848E+22	7,148781E+22	1,482340E+23	1,429763E+23	2,912103E+23
2295	7,411723E+22	7,411908E+22	7,148876E+22	7,148878E+22	1,482363E+23	1,429775E+23	2,912138E+23
2296	7,411904E+22	7,411848E+22	7,148746E+22	7,148845E+22	1,482375E+23	1,429759E+23	2,912134E+23
2297	7,411602E+22	7,411656E+22	7,148803E+22	7,148797E+22	1,482326E+23	1,429760E+23	2,912086E+23
2298	7,411816E+22	7,411899E+22	7,148757E+22	7,148753E+22	1,482371E+23	1,429751E+23	2,912122E+23
2299	7,411875E+22	7,411636E+22	7,148662E+22	7,148659E+22	1,482351E+23	1,429732E+23	2,912083E+23
2300	7,411594E+22	7,411660E+22	7,148744E+22	7,148664E+22	1,482325E+23	1,429741E+23	2,912066E+23
2301	7,411842E+22	7,411883E+22	7,148652E+22	7,148639E+22	1,482372E+23	1,429729E+23	2,912102E+23
2302	7,411623E+22	7,411592E+22	7,148620E+22	7,148625E+22	1,482322E+23	1,429725E+23	2,912046E+23
2303	7,411513E+22	7,411741E+22	7,148723E+22	7,148663E+22	1,482325E+23	1,429739E+23	2,912064E+23
2304	7,411804E+22	7,411743E+22	7,148655E+22	7,148640E+22	1,482355E+23	1,429729E+23	2,912084E+23
2305	7,411547E+22	7,411475E+22	7,148710E+22	7,148669E+22	1,482302E+23	1,429738E+23	2,912040E+23
2306	7,411698E+22	7,411777E+22	7,148710E+22	7,148724E+22	1,482348E+23	1,429743E+23	2,912091E+23
2307	7,411848E+22	7,411704E+22	7,148625E+22	7,148749E+22	1,482355E+23	1,429737E+23	2,912093E+23
2308	7,411568E+22	7,411680E+22	7,148753E+22	7,148793E+22	1,482325E+23	1,429755E+23	2,912079E+23
2309	7,411887E+22	7,411972E+22	7,148801E+22	7,148777E+22	1,482386E+23	1,429758E+23	2,912144E+23
2310	7,411843E+22	7,411725E+22	7,148830E+22	7,148763E+22	1,482357E+23	1,429759E+23	2,912116E+23
2311	7,411707E+22	7,411811E+22	7,148960E+22	7,148835E+22	1,482352E+23	1,429779E+23	2,912131E+23
2312	7,412010E+22	7,411987E+22	7,148902E+22	7,148886E+22	1,482400E+23	1,429779E+23	2,912178E+23
2313	7,411722E+22	7,411719E+22	7,148905E+22	7,148932E+22	1,482344E+23	1,429784E+23	2,912128E+23
2314	7,411740E+22	7,411957E+22	7,148920E+22	7,148937E+22	1,482370E+23	1,429786E+23	2,912155E+23
2315	7,411976E+22	7,411894E+22	7,148825E+22	7,148895E+22	1,482387E+23	1,429772E+23	2,912159E+23
2316	7,411690E+22	7,411655E+22	7,148869E+22	7,148851E+22	1,482334E+23	1,429772E+23	2,912106E+23
2317	7,411928E+22	7,411913E+22	7,148856E+22	7,148777E+22	1,482384E+23	1,429763E+23	2,912147E+23
2318	7,411895E+22	7,411732E+22	7,148748E+22	7,148725E+22	1,482363E+23	1,429747E+23	2,912110E+23
2319	7,411601E+22	7,411718E+22	7,148762E+22	7,148750E+22	1,482332E+23	1,429751E+23	2,912083E+23
2320	7,411852E+22	7,411954E+22	7,148712E+22	7,148740E+22	1,482381E+23	1,429745E+23	2,912126E+23
2321	7,411623E+22	7,411601E+22	7,148725E+22	7,148712E+22	1,482322E+23	1,429744E+23	2,912066E+23
2322	7,411577E+22	7,411717E+22	7,148795E+22	7,148692E+22	1,482329E+23	1,429749E+23	2,912078E+23
2323	7,411895E+22	7,411783E+22	7,148714E+22	7,148724E+22	1,482368E+23	1,429744E+23	2,912112E+23
2324	7,411604E+22	7,411534E+22	7,148731E+22	7,148787E+22	1,482314E+23	1,429752E+23	2,912066E+23
2325	7,411770E+22	7,411873E+22	7,148782E+22	7,148793E+22	1,482364E+23	1,429758E+23	2,912122E+23
2326	7,411871E+22	7,411827E+22	7,148748E+22	7,148802E+22	1,482370E+23	1,429755E+23	2,912125E+23
2327	7,411636E+22	7,411712E+22	7,148865E+22	7,148839E+22	1,482335E+23	1,429770E+23	2,912105E+23
2328	7,411974E+22	7,412020E+22	7,148932E+22	7,148861E+22	1,482399E+23	1,429779E+23	2,912179E+23
2329	7,411867E+22	7,411752E+22	7,148960E+22	7,148898E+22	1,482362E+23	1,429786E+23	2,912148E+23
2330	7,411730E+22	7,411859E+22	7,149017E+22	7,148945E+22	1,482359E+23	1,429796E+23	2,912155E+23
2331	7,412038E+22	7,412079E+22	7,148933E+22	7,149024E+22	1,482412E+23	1,429796E+23	2,912207E+23
2332	7,411761E+22	7,411747E+22	7,148947E+22	7,149043E+22	1,482351E+23	1,429799E+23	2,912150E+23
2333	7,411865E+22	7,411955E+22	7,149017E+22	7,148946E+22	1,482382E+23	1,429796E+23	2,912178E+23
2334	7,412064E+22	7,411928E+22	7,148920E+22	7,148894E+22	1,482399E+23	1,429781E+23	2,912181E+23
2335	7,411777E+22	7,411682E+22	7,148898E+22	7,148882E+22	1,482346E+23	1,429778E+23	2,912124E+23
2336	7,411964E+22	7,412019E+22	7,148881E+22	7,148849E+22	1,482398E+23	1,429773E+23	2,912171E+23
2337	7,411830E+22	7,411824E+22	7,148819E+22	7,148828E+22	1,482365E+23	1,429765E+23	2,912130E+23
2338	7,411576E+22	7,411765E+22	7,148843E+22	7,148796E+22	1,482334E+23	1,429764E+23	2,912098E+23
2339	7,411882E+22	7,411981E+22	7,148811E+22	7,148818E+22	1,482386E+23	1,429763E+23	2,912149E+23
2340	7,411684E+22	7,411573E+22	7,148814E+22	7,148820E+22	1,482326E+23	1,429763E+23	2,912089E+23
2341	7,411696E+22	7,411709E+22	7,148882E+22	7,148767E+22	1,482340E+23	1,429765E+23	2,912105E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2342	7,411945E+22	7,411870E+22	7,148778E+22	7,148816E+22	1,482381E+23	1,429759E+23	2,912141E+23
2343	7,411668E+22	7,411613E+22	7,148744E+22	7,148875E+22	1,482328E+23	1,429762E+23	2,912090E+23
2344	7,411841E+22	7,411968E+22	7,148859E+22	7,148859E+22	1,482381E+23	1,429772E+23	2,912153E+23
2345	7,411908E+22	7,411879E+22	7,148895E+22	7,148862E+22	1,482379E+23	1,429776E+23	2,912154E+23
2346	7,411706E+22	7,411738E+22	7,148980E+22	7,148873E+22	1,482344E+23	1,429785E+23	2,912130E+23
2347	7,412024E+22	7,412095E+22	7,149022E+22	7,148979E+22	1,482412E+23	1,429800E+23	2,912212E+23
2348	7,411882E+22	7,411814E+22	7,149020E+22	7,149062E+22	1,482370E+23	1,429808E+23	2,912178E+23
2349	7,411783E+22	7,411907E+22	7,149097E+22	7,149049E+22	1,482369E+23	1,429815E+23	2,912184E+23
2350	7,412075E+22	7,412149E+22	7,149041E+22	7,149089E+22	1,482422E+23	1,429813E+23	2,912235E+23
2351	7,411869E+22	7,411747E+22	7,148994E+22	7,149076E+22	1,482362E+23	1,429807E+23	2,912169E+23
2352	7,411974E+22	7,411990E+22	7,149080E+22	7,148986E+22	1,482396E+23	1,429807E+23	2,912203E+23
2353	7,412090E+22	7,411988E+22	7,148995E+22	7,148965E+22	1,482408E+23	1,429796E+23	2,912204E+23
2354	7,411774E+22	7,411756E+22	7,148925E+22	7,148935E+22	1,482353E+23	1,429786E+23	2,912139E+23
2355	7,411940E+22	7,412124E+22	7,148926E+22	7,148949E+22	1,482406E+23	1,429787E+23	2,912194E+23
2356	7,411827E+22	7,411834E+22	7,148903E+22	7,148921E+22	1,482366E+23	1,429782E+23	2,912149E+23
2357	7,411666E+22	7,411721E+22	7,148964E+22	7,148824E+22	1,482339E+23	1,429779E+23	2,912118E+23
2358	7,411956E+22	7,411985E+22	7,148915E+22	7,148857E+22	1,482394E+23	1,429777E+23	2,912171E+23
2359	7,411781E+22	7,411581E+22	7,148824E+22	7,148897E+22	1,482336E+23	1,429772E+23	2,912108E+23
2360	7,411766E+22	7,411811E+22	7,148897E+22	7,148862E+22	1,482358E+23	1,429776E+23	2,912134E+23
2361	7,411942E+22	7,411980E+22	7,148852E+22	7,148913E+22	1,482392E+23	1,429776E+23	2,912169E+23
2362	7,411699E+22	7,411693E+22	7,148843E+22	7,148906E+22	1,482339E+23	1,429775E+23	2,912114E+23
2363	7,411898E+22	7,412050E+22	7,148986E+22	7,148930E+22	1,482395E+23	1,429792E+23	2,912186E+23
2364	7,411963E+22	7,411897E+22	7,149035E+22	7,148985E+22	1,482386E+23	1,429802E+23	2,912188E+23
2365	7,411795E+22	7,411761E+22	7,149107E+22	7,148988E+22	1,482356E+23	1,429809E+23	2,912165E+23
2366	7,412041E+22	7,412179E+22	7,149105E+22	7,149110E+22	1,482422E+23	1,429821E+23	2,912243E+23
2367	7,411937E+22	7,411860E+22	7,149036E+22	7,149187E+22	1,482380E+23	1,429822E+23	2,912202E+23
2368	7,411881E+22	7,411953E+22	7,149144E+22	7,149111E+22	1,482383E+23	1,429825E+23	2,912209E+23
2369	7,412141E+22	7,412161E+22	7,149132E+22	7,149120E+22	1,482430E+23	1,429825E+23	2,912255E+23
2370	7,411954E+22	7,411782E+22	7,149047E+22	7,149062E+22	1,482374E+23	1,429811E+23	2,912185E+23
2371	7,412020E+22	7,412093E+22	7,149114E+22	7,149041E+22	1,482411E+23	1,429816E+23	2,912227E+23
2372	7,412070E+22	7,412072E+22	7,149055E+22	7,149066E+22	1,482414E+23	1,429812E+23	2,912226E+23
2373	7,411786E+22	7,411807E+22	7,149027E+22	7,148995E+22	1,482359E+23	1,429802E+23	2,912162E+23
2374	7,411925E+22	7,412161E+22	7,149061E+22	7,148998E+22	1,482409E+23	1,429806E+23	2,912215E+23
2375	7,411899E+22	7,411795E+22	7,148977E+22	7,148994E+22	1,482369E+23	1,429797E+23	2,912166E+23
2376	7,411771E+22	7,411712E+22	7,149025E+22	7,148906E+22	1,482348E+23	1,429793E+23	2,912141E+23
2377	7,411998E+22	7,412015E+22	7,148974E+22	7,148968E+22	1,482401E+23	1,429794E+23	2,912196E+23
2378	7,411820E+22	7,411674E+22	7,148822E+22	7,148966E+22	1,482349E+23	1,429779E+23	2,912128E+23
2379	7,411799E+22	7,411950E+22	7,148924E+22	7,148953E+22	1,482375E+23	1,429788E+23	2,912163E+23
2380	7,411986E+22	7,412040E+22	7,148964E+22	7,148985E+22	1,482403E+23	1,429795E+23	2,912197E+23
2381	7,411808E+22	7,411705E+22	7,149000E+22	7,148935E+22	1,482351E+23	1,429794E+23	2,912145E+23
2382	7,411950E+22	7,412107E+22	7,149140E+22	7,148992E+22	1,482406E+23	1,429813E+23	2,912219E+23
2383	7,412029E+22	7,411933E+22	7,149086E+22	7,149109E+22	1,482396E+23	1,429819E+23	2,912216E+23
2384	7,411838E+22	7,411839E+22	7,149154E+22	7,149120E+22	1,482368E+23	1,429827E+23	2,912195E+23
2385	7,412044E+22	7,412244E+22	7,149189E+22	7,149224E+22	1,482429E+23	1,429841E+23	2,912270E+23
2386	7,411996E+22	7,411897E+22	7,149095E+22	7,149215E+22	1,482389E+23	1,429831E+23	2,912220E+23
2387	7,411976E+22	7,412017E+22	7,149207E+22	7,149163E+22	1,482399E+23	1,429837E+23	2,912236E+23
2388	7,412217E+22	7,412186E+22	7,149222E+22	7,149192E+22	1,482440E+23	1,429841E+23	2,912282E+23
2389	7,412028E+22	7,411835E+22	7,149135E+22	7,149115E+22	1,482386E+23	1,429825E+23	2,912211E+23
2390	7,411997E+22	7,412206E+22	7,149198E+22	7,149108E+22	1,482420E+23	1,429831E+23	2,912251E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2391	7,412079E+22	7,412107E+22	7,149098E+22	7,149157E+22	1,482419E+23	1,429825E+23	2,912244E+23
2392	7,411839E+22	7,411810E+22	7,149115E+22	7,149055E+22	1,482365E+23	1,429817E+23	2,912182E+23
2393	7,411966E+22	7,412129E+22	7,149161E+22	7,149063E+22	1,482410E+23	1,429822E+23	2,912232E+23
2394	7,411970E+22	7,411799E+22	7,149001E+22	7,149035E+22	1,482377E+23	1,429804E+23	2,912180E+23
2395	7,411833E+22	7,411816E+22	7,149008E+22	7,149007E+22	1,482365E+23	1,429801E+23	2,912166E+23
2396	7,412016E+22	7,412105E+22	7,149012E+22	7,149078E+22	1,482412E+23	1,429809E+23	2,912221E+23
2397	7,411881E+22	7,411769E+22	7,148923E+22	7,149005E+22	1,482365E+23	1,429793E+23	2,912158E+23
2398	7,411829E+22	7,412036E+22	7,149079E+22	7,148968E+22	1,482386E+23	1,429805E+23	2,912191E+23
2399	7,412064E+22	7,412050E+22	7,149083E+22	7,149060E+22	1,482411E+23	1,429814E+23	2,912226E+23
2400	7,411896E+22	7,411731E+22	7,149119E+22	7,149037E+22	1,482363E+23	1,429816E+23	2,912178E+23
2401	7,411955E+22	7,412137E+22	7,149238E+22	7,149144E+22	1,482409E+23	1,429838E+23	2,912247E+23
2402	7,412045E+22	7,412004E+22	7,149108E+22	7,149228E+22	1,482405E+23	1,429834E+23	2,912238E+23
2403	7,411896E+22	7,411935E+22	7,149167E+22	7,149236E+22	1,482383E+23	1,429840E+23	2,912223E+23
2404	7,412126E+22	7,412256E+22	7,149284E+22	7,149291E+22	1,482438E+23	1,429857E+23	2,912296E+23
2405	7,412140E+22	7,411923E+22	7,149200E+22	7,149209E+22	1,482406E+23	1,429841E+23	2,912247E+23
2406	7,412043E+22	7,412103E+22	7,149310E+22	7,149174E+22	1,482415E+23	1,429848E+23	2,912263E+23
2407	7,412260E+22	7,412258E+22	7,149262E+22	7,149276E+22	1,482452E+23	1,429854E+23	2,912306E+23
2408	7,412035E+22	7,411928E+22	7,149205E+22	7,149208E+22	1,482396E+23	1,429841E+23	2,912238E+23
2409	7,411947E+22	7,412248E+22	7,149314E+22	7,149208E+22	1,482419E+23	1,429852E+23	2,912272E+23
2410	7,412090E+22	7,412109E+22	7,149170E+22	7,149207E+22	1,482420E+23	1,429838E+23	2,912258E+23
2411	7,411909E+22	7,411828E+22	7,149155E+22	7,149149E+22	1,482374E+23	1,429830E+23	2,912204E+23
2412	7,412040E+22	7,412112E+22	7,149224E+22	7,149172E+22	1,482415E+23	1,429840E+23	2,912255E+23
2413	7,412062E+22	7,411847E+22	7,149033E+22	7,149102E+22	1,482391E+23	1,429813E+23	2,912204E+23
2414	7,411855E+22	7,411948E+22	7,149056E+22	7,149059E+22	1,482380E+23	1,429811E+23	2,912192E+23
2415	7,412073E+22	7,412167E+22	7,149054E+22	7,149131E+22	1,482424E+23	1,429819E+23	2,912243E+23
2416	7,411961E+22	7,411800E+22	7,149048E+22	7,149027E+22	1,482376E+23	1,429808E+23	2,912184E+23
2417	7,411863E+22	7,412045E+22	7,149235E+22	7,149027E+22	1,482391E+23	1,429826E+23	2,912217E+23
2418	7,412098E+22	7,412080E+22	7,149151E+22	7,149134E+22	1,482418E+23	1,429828E+23	2,912246E+23
2419	7,411926E+22	7,411834E+22	7,149142E+22	7,149193E+22	1,482376E+23	1,429834E+23	2,912210E+23
2420	7,411972E+22	7,412191E+22	7,149306E+22	7,149298E+22	1,482416E+23	1,429860E+23	2,912277E+23
2421	7,412125E+22	7,412060E+22	7,149198E+22	7,149295E+22	1,482418E+23	1,429849E+23	2,912268E+23
2422	7,411975E+22	7,412015E+22	7,149285E+22	7,149261E+22	1,482399E+23	1,429855E+23	2,912254E+23
2423	7,412246E+22	7,412274E+22	7,149362E+22	7,149352E+22	1,482452E+23	1,429871E+23	2,912323E+23
2424	7,412238E+22	7,411983E+22	7,149302E+22	7,149274E+22	1,482422E+23	1,429858E+23	2,912280E+23
2425	7,412033E+22	7,412184E+22	7,149405E+22	7,149283E+22	1,482422E+23	1,429869E+23	2,912291E+23
2426	7,412228E+22	7,412344E+22	7,149294E+22	7,149368E+22	1,482457E+23	1,429866E+23	2,912323E+23
2427	7,412049E+22	7,412001E+22	7,149244E+22	7,149318E+22	1,482405E+23	1,429856E+23	2,912261E+23
2428	7,411991E+22	7,412197E+22	7,149422E+22	7,149291E+22	1,482419E+23	1,429871E+23	2,912290E+23
2429	7,412204E+22	7,412089E+22	7,149249E+22	7,149235E+22	1,482429E+23	1,429848E+23	2,912278E+23
2430	7,411984E+22	7,411888E+22	7,149194E+22	7,149174E+22	1,482387E+23	1,429837E+23	2,912224E+23
2431	7,412102E+22	7,412165E+22	7,149216E+22	7,149252E+22	1,482427E+23	1,429847E+23	2,912273E+23
2432	7,412106E+22	7,411951E+22	7,149085E+22	7,149146E+22	1,482406E+23	1,429823E+23	2,912229E+23
2433	7,411842E+22	7,412011E+22	7,149181E+22	7,149104E+22	1,482385E+23	1,429829E+23	2,912214E+23
2434	7,412089E+22	7,412201E+22	7,149160E+22	7,149159E+22	1,482429E+23	1,429832E+23	2,912261E+23
2435	7,412021E+22	7,411853E+22	7,149134E+22	7,149137E+22	1,482387E+23	1,429827E+23	2,912215E+23
2436	7,411899E+22	7,412036E+22	7,149353E+22	7,149182E+22	1,482393E+23	1,429853E+23	2,912247E+23
2437	7,412150E+22	7,412139E+22	7,149215E+22	7,149262E+22	1,482429E+23	1,429848E+23	2,912277E+23
2438	7,411955E+22	7,411947E+22	7,149198E+22	7,149294E+22	1,482390E+23	1,429849E+23	2,912239E+23
2439	7,412068E+22	7,412217E+22	7,149357E+22	7,149392E+22	1,482428E+23	1,429875E+23	2,912303E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2440	7,412263E+22	7,412091E+22	7,149307E+22	7,149320E+22	1,482435E+23	1,429863E+23	2,912298E+23
2441	7,412054E+22	7,412058E+22	7,149410E+22	7,149305E+22	1,482411E+23	1,429872E+23	2,912283E+23
2442	7,412289E+22	7,412352E+22	7,149411E+22	7,149403E+22	1,482464E+23	1,429881E+23	2,912345E+23
2443	7,412249E+22	7,412123E+22	7,149334E+22	7,149401E+22	1,482437E+23	1,429873E+23	2,912311E+23
2444	7,412010E+22	7,412236E+22	7,149512E+22	7,149413E+22	1,482425E+23	1,429892E+23	2,912317E+23
2445	7,412256E+22	7,412366E+22	7,149397E+22	7,149424E+22	1,482462E+23	1,429882E+23	2,912344E+23
2446	7,412096E+22	7,412025E+22	7,149353E+22	7,149355E+22	1,482412E+23	1,429871E+23	2,912283E+23
2447	7,412101E+22	7,412150E+22	7,149461E+22	7,149368E+22	1,482425E+23	1,429883E+23	2,912308E+23
2448	7,412303E+22	7,412095E+22	7,149295E+22	7,149293E+22	1,482440E+23	1,429859E+23	2,912299E+23
2449	7,411995E+22	7,411965E+22	7,149235E+22	7,149253E+22	1,482396E+23	1,429849E+23	2,912245E+23
2450	7,412100E+22	7,412255E+22	7,149215E+22	7,149293E+22	1,482435E+23	1,429851E+23	2,912286E+23
2451	7,412141E+22	7,412048E+22	7,149137E+22	7,149206E+22	1,482419E+23	1,429834E+23	2,912253E+23
2452	7,411885E+22	7,411998E+22	7,149327E+22	7,149167E+22	1,482388E+23	1,429849E+23	2,912238E+23
2453	7,412153E+22	7,412217E+22	7,149274E+22	7,149209E+22	1,482437E+23	1,429848E+23	2,912285E+23
2454	7,412053E+22	7,411938E+22	7,149223E+22	7,149230E+22	1,482399E+23	1,429845E+23	2,912244E+23
2455	7,411945E+22	7,412075E+22	7,149384E+22	7,149339E+22	1,482402E+23	1,429872E+23	2,912274E+23
2456	7,412213E+22	7,412205E+22	7,149298E+22	7,149364E+22	1,482442E+23	1,429866E+23	2,912308E+23
2457	7,412003E+22	7,412004E+22	7,149319E+22	7,149367E+22	1,482401E+23	1,429869E+23	2,912269E+23
2458	7,412149E+22	7,412258E+22	7,149432E+22	7,149429E+22	1,482441E+23	1,429886E+23	2,912327E+23
2459	7,412369E+22	7,412183E+22	7,149376E+22	7,149409E+22	1,482455E+23	1,429879E+23	2,912334E+23
2460	7,412104E+22	7,412093E+22	7,149530E+22	7,149428E+22	1,482420E+23	1,429896E+23	2,912315E+23
2461	7,412307E+22	7,412452E+22	7,149489E+22	7,149497E+22	1,482476E+23	1,429899E+23	2,912374E+23
2462	7,412251E+22	7,412232E+22	7,149414E+22	7,149475E+22	1,482448E+23	1,429889E+23	2,912337E+23
2463	7,412066E+22	7,412203E+22	7,149585E+22	7,149499E+22	1,482427E+23	1,429908E+23	2,912335E+23
2464	7,412360E+22	7,412334E+22	7,149499E+22	7,149451E+22	1,482469E+23	1,429895E+23	2,912364E+23
2465	7,412159E+22	7,412023E+22	7,149422E+22	7,149402E+22	1,482418E+23	1,429882E+23	2,912301E+23
2466	7,412142E+22	7,412196E+22	7,149441E+22	7,149419E+22	1,482434E+23	1,429886E+23	2,912320E+23
2467	7,412331E+22	7,412232E+22	7,149271E+22	7,149383E+22	1,482456E+23	1,429865E+23	2,912322E+23
2468	7,411991E+22	7,412026E+22	7,149327E+22	7,149331E+22	1,482402E+23	1,429866E+23	2,912268E+23
2469	7,412121E+22	7,412316E+22	7,149330E+22	7,149305E+22	1,482444E+23	1,429864E+23	2,912307E+23
2470	7,412177E+22	7,412109E+22	7,149277E+22	7,149239E+22	1,482429E+23	1,429852E+23	2,912280E+23
2471	7,411959E+22	7,411967E+22	7,149427E+22	7,149289E+22	1,482393E+23	1,429872E+23	2,912264E+23
2472	7,412220E+22	7,412231E+22	7,149369E+22	7,149329E+22	1,482445E+23	1,429870E+23	2,912315E+23
2473	7,412060E+22	7,412009E+22	7,149289E+22	7,149375E+22	1,482407E+23	1,429866E+23	2,912273E+23
2474	7,411986E+22	7,412134E+22	7,149391E+22	7,149433E+22	1,482412E+23	1,429882E+23	2,912294E+23
2475	7,412317E+22	7,412276E+22	7,149347E+22	7,149440E+22	1,482459E+23	1,429879E+23	2,912338E+23
2476	7,412117E+22	7,412016E+22	7,149454E+22	7,149420E+22	1,482413E+23	1,429887E+23	2,912301E+23
2477	7,412250E+22	7,412326E+22	7,149520E+22	7,149448E+22	1,482458E+23	1,429897E+23	2,912355E+23
2478	7,412403E+22	7,412322E+22	7,149469E+22	7,149470E+22	1,482472E+23	1,429894E+23	2,912366E+23
2479	7,412124E+22	7,412162E+22	7,149593E+22	7,149557E+22	1,482429E+23	1,429915E+23	2,912344E+23
2480	7,412320E+22	7,412492E+22	7,149605E+22	7,149576E+22	1,482481E+23	1,429918E+23	2,912399E+23
2481	7,412258E+22	7,412250E+22	7,149549E+22	7,149554E+22	1,482451E+23	1,429910E+23	2,912361E+23
2482	7,412127E+22	7,412182E+22	7,149624E+22	7,149558E+22	1,482431E+23	1,429918E+23	2,912349E+23
2483	7,412454E+22	7,412368E+22	7,149515E+22	7,149547E+22	1,482482E+23	1,429906E+23	2,912388E+23
2484	7,412210E+22	7,412053E+22	7,149472E+22	7,149502E+22	1,482426E+23	1,429897E+23	2,912324E+23
2485	7,412164E+22	7,412306E+22	7,149447E+22	7,149465E+22	1,482447E+23	1,429891E+23	2,912338E+23
2486	7,412342E+22	7,412361E+22	7,149340E+22	7,149404E+22	1,482470E+23	1,429874E+23	2,912345E+23
2487	7,412053E+22	7,412018E+22	7,149427E+22	7,149383E+22	1,482407E+23	1,429881E+23	2,912288E+23
2488	7,412197E+22	7,412301E+22	7,149476E+22	7,149329E+22	1,482450E+23	1,429880E+23	2,912330E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2489	7,412207E+22	7,412131E+22	7,149395E+22	7,149325E+22	1,482434E+23	1,429872E+23	2,912306E+23
2490	7,411977E+22	7,412003E+22	7,149439E+22	7,149405E+22	1,482398E+23	1,429884E+23	2,912282E+23
2491	7,412260E+22	7,412334E+22	7,149378E+22	7,149473E+22	1,482459E+23	1,429885E+23	2,912345E+23
2492	7,412104E+22	7,412043E+22	7,149385E+22	7,149481E+22	1,482415E+23	1,429887E+23	2,912301E+23
2493	7,412071E+22	7,412200E+22	7,149479E+22	7,149459E+22	1,482427E+23	1,429894E+23	2,912321E+23
2494	7,412420E+22	7,412371E+22	7,149460E+22	7,149461E+22	1,482479E+23	1,429892E+23	2,912371E+23
2495	7,412216E+22	7,412033E+22	7,149554E+22	7,149520E+22	1,482425E+23	1,429907E+23	2,912332E+23
2496	7,412300E+22	7,412399E+22	7,149638E+22	7,149536E+22	1,482470E+23	1,429917E+23	2,912387E+23
2497	7,412379E+22	7,412425E+22	7,149568E+22	7,149595E+22	1,482480E+23	1,429916E+23	2,912397E+23
2498	7,412127E+22	7,412197E+22	7,149638E+22	7,149656E+22	1,482432E+23	1,429929E+23	2,912362E+23
2499	7,412394E+22	7,412515E+22	7,149664E+22	7,149661E+22	1,482491E+23	1,429933E+23	2,912423E+23
2500	7,412343E+22	7,412214E+22	7,149648E+22	7,149628E+22	1,482456E+23	1,429928E+23	2,912383E+23
2501	7,412211E+22	7,412228E+22	7,149642E+22	7,149590E+22	1,482444E+23	1,429923E+23	2,912367E+23
2502	7,412498E+22	7,412492E+22	7,149539E+22	7,149590E+22	1,482499E+23	1,429913E+23	2,912412E+23
2503	7,412242E+22	7,412122E+22	7,149509E+22	7,149582E+22	1,482436E+23	1,429909E+23	2,912346E+23
2504	7,412194E+22	7,412361E+22	7,149565E+22	7,149476E+22	1,482455E+23	1,429904E+23	2,912360E+23
2505	7,412348E+22	7,412403E+22	7,149492E+22	7,149441E+22	1,482475E+23	1,429893E+23	2,912368E+23
2506	7,412095E+22	7,412006E+22	7,149502E+22	7,149452E+22	1,482410E+23	1,429895E+23	2,912306E+23
2507	7,412254E+22	7,412321E+22	7,149531E+22	7,149460E+22	1,482457E+23	1,429899E+23	2,912357E+23
2508	7,412233E+22	7,412151E+22	7,149470E+22	7,149484E+22	1,482438E+23	1,429895E+23	2,912334E+23
2509	7,412013E+22	7,412092E+22	7,149433E+22	7,149494E+22	1,482411E+23	1,429893E+23	2,912303E+23
2510	7,412323E+22	7,412427E+22	7,149439E+22	7,149519E+22	1,482475E+23	1,429896E+23	2,912371E+23
2511	7,412226E+22	7,412053E+22	7,149473E+22	7,149526E+22	1,482428E+23	1,429900E+23	2,912328E+23
2512	7,412195E+22	7,412229E+22	7,149603E+22	7,149462E+22	1,482442E+23	1,429906E+23	2,912349E+23
2513	7,412460E+22	7,412466E+22	7,149584E+22	7,149530E+22	1,482493E+23	1,429911E+23	2,912404E+23
2514	7,412223E+22	7,412127E+22	7,149595E+22	7,149633E+22	1,482435E+23	1,429923E+23	2,912358E+23
2515	7,412299E+22	7,412511E+22	7,149701E+22	7,149677E+22	1,482481E+23	1,429938E+23	2,912419E+23
2516	7,412384E+22	7,412446E+22	7,149711E+22	7,149719E+22	1,482483E+23	1,429943E+23	2,912426E+23
2517	7,412184E+22	7,412220E+22	7,149719E+22	7,149710E+22	1,482440E+23	1,429943E+23	2,912383E+23
2518	7,412491E+22	7,412550E+22	7,149751E+22	7,149713E+22	1,482504E+23	1,429946E+23	2,912451E+23
2519	7,412452E+22	7,412208E+22	7,149695E+22	7,149728E+22	1,482466E+23	1,429942E+23	2,912408E+23
2520	7,412284E+22	7,412296E+22	7,149689E+22	7,149643E+22	1,482458E+23	1,429933E+23	2,912391E+23
2521	7,412498E+22	7,412607E+22	7,149602E+22	7,149650E+22	1,482510E+23	1,429925E+23	2,912436E+23
2522	7,412259E+22	7,412163E+22	7,149555E+22	7,149621E+22	1,482442E+23	1,429918E+23	2,912360E+23
2523	7,412251E+22	7,412391E+22	7,149655E+22	7,149520E+22	1,482464E+23	1,429917E+23	2,912382E+23
2524	7,412389E+22	7,412374E+22	7,149615E+22	7,149519E+22	1,482476E+23	1,429913E+23	2,912390E+23
2525	7,412123E+22	7,412052E+22	7,149532E+22	7,149527E+22	1,482417E+23	1,429906E+23	2,912323E+23
2526	7,412278E+22	7,412420E+22	7,149557E+22	7,149554E+22	1,482470E+23	1,429911E+23	2,912381E+23
2527	7,412272E+22	7,412184E+22	7,149505E+22	7,149603E+22	1,482446E+23	1,429911E+23	2,912356E+23
2528	7,412090E+22	7,412139E+22	7,149534E+22	7,149523E+22	1,482423E+23	1,429906E+23	2,912329E+23
2529	7,412390E+22	7,412489E+22	7,149569E+22	7,149553E+22	1,482488E+23	1,429912E+23	2,912400E+23
2530	7,412309E+22	7,412089E+22	7,149549E+22	7,149587E+22	1,482440E+23	1,429914E+23	2,912353E+23
2531	7,412263E+22	7,412314E+22	7,149684E+22	7,149570E+22	1,482458E+23	1,429925E+23	2,912383E+23
2532	7,412458E+22	7,412537E+22	7,149696E+22	7,149684E+22	1,482499E+23	1,429938E+23	2,912438E+23
2533	7,412219E+22	7,412230E+22	7,149648E+22	7,149740E+22	1,482445E+23	1,429939E+23	2,912384E+23
2534	7,412347E+22	7,412565E+22	7,149804E+22	7,149752E+22	1,482491E+23	1,429956E+23	2,912447E+23
2535	7,412494E+22	7,412403E+22	7,149812E+22	7,149805E+22	1,482490E+23	1,429962E+23	2,912451E+23
2536	7,412322E+22	7,412218E+22	7,149801E+22	7,149738E+22	1,482454E+23	1,429954E+23	2,912408E+23
2537	7,412551E+22	7,412624E+22	7,149814E+22	7,149777E+22	1,482518E+23	1,429959E+23	2,912477E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2538	7,412483E+22	7,412305E+22	7,149684E+22	7,149799E+22	1,482479E+23	1,429948E+23	2,912427E+23
2539	7,412304E+22	7,412405E+22	7,149730E+22	7,149708E+22	1,482471E+23	1,429944E+23	2,912415E+23
2540	7,412493E+22	7,412643E+22	7,149741E+22	7,149714E+22	1,482514E+23	1,429946E+23	2,912459E+23
2541	7,412283E+22	7,412204E+22	7,149633E+22	7,149647E+22	1,482449E+23	1,429928E+23	2,912377E+23
2542	7,412291E+22	7,412410E+22	7,149751E+22	7,149588E+22	1,482470E+23	1,429934E+23	2,912404E+23
2543	7,412434E+22	7,412357E+22	7,149678E+22	7,149657E+22	1,482479E+23	1,429934E+23	2,912413E+23
2544	7,412171E+22	7,412095E+22	7,149564E+22	7,149619E+22	1,482427E+23	1,429918E+23	2,912345E+23
2545	7,412298E+22	7,412497E+22	7,149614E+22	7,149637E+22	1,482480E+23	1,429925E+23	2,912405E+23
2546	7,412348E+22	7,412215E+22	7,149536E+22	7,149644E+22	1,482456E+23	1,429918E+23	2,912374E+23
2547	7,412207E+22	7,412186E+22	7,149615E+22	7,149549E+22	1,482439E+23	1,429916E+23	2,912356E+23
2548	7,412458E+22	7,412524E+22	7,149702E+22	7,149620E+22	1,482498E+23	1,429932E+23	2,912430E+23
2549	7,412333E+22	7,412204E+22	7,149609E+22	7,149660E+22	1,482454E+23	1,429927E+23	2,912381E+23
2550	7,412266E+22	7,412443E+22	7,149776E+22	7,149685E+22	1,482471E+23	1,429946E+23	2,912417E+23
2551	7,412470E+22	7,412573E+22	7,149807E+22	7,149832E+22	1,482504E+23	1,429964E+23	2,912468E+23
2552	7,412291E+22	7,412248E+22	7,149783E+22	7,149811E+22	1,482454E+23	1,429959E+23	2,912413E+23
2553	7,412427E+22	7,412583E+22	7,149932E+22	7,149827E+22	1,482501E+23	1,429976E+23	2,912477E+23
2554	7,412601E+22	7,412403E+22	7,149848E+22	7,149895E+22	1,482500E+23	1,429974E+23	2,912475E+23
2555	7,412421E+22	7,412300E+22	7,149827E+22	7,149833E+22	1,482472E+23	1,429966E+23	2,912438E+23
2556	7,412569E+22	7,412708E+22	7,149864E+22	7,149880E+22	1,482528E+23	1,429974E+23	2,912502E+23
2557	7,412474E+22	7,412425E+22	7,149709E+22	7,149834E+22	1,482490E+23	1,429954E+23	2,912444E+23
2558	7,412337E+22	7,412469E+22	7,149830E+22	7,149722E+22	1,482481E+23	1,429955E+23	2,912436E+23
2559	7,412541E+22	7,412598E+22	7,149852E+22	7,149771E+22	1,482514E+23	1,429962E+23	2,912476E+23
2560	7,412353E+22	7,412194E+22	7,149727E+22	7,149691E+22	1,482455E+23	1,429942E+23	2,912397E+23
2561	7,412307E+22	7,412452E+22	7,149812E+22	7,149683E+22	1,482476E+23	1,429950E+23	2,912425E+23
2562	7,412450E+22	7,412400E+22	7,149666E+22	7,149767E+22	1,482485E+23	1,429943E+23	2,912428E+23
2563	7,412224E+22	7,412171E+22	7,149596E+22	7,149688E+22	1,482439E+23	1,429928E+23	2,912368E+23
2564	7,412345E+22	7,412520E+22	7,149728E+22	7,149696E+22	1,482487E+23	1,429942E+23	2,912429E+23
2565	7,412413E+22	7,412287E+22	7,149609E+22	7,149661E+22	1,482470E+23	1,429927E+23	2,912397E+23
2566	7,412286E+22	7,412257E+22	7,149728E+22	7,149613E+22	1,482454E+23	1,429934E+23	2,912388E+23
2567	7,412491E+22	7,412563E+22	7,149809E+22	7,149763E+22	1,482505E+23	1,429957E+23	2,912463E+23
2568	7,412367E+22	7,412290E+22	7,149701E+22	7,149776E+22	1,482466E+23	1,429948E+23	2,912414E+23
2569	7,412276E+22	7,412510E+22	7,149895E+22	7,149803E+22	1,482479E+23	1,429970E+23	2,912448E+23
2570	7,412547E+22	7,412569E+22	7,149878E+22	7,149924E+22	1,482512E+23	1,429980E+23	2,912492E+23
2571	7,412428E+22	7,412261E+22	7,149850E+22	7,149873E+22	1,482469E+23	1,429972E+23	2,912441E+23
2572	7,412514E+22	7,412606E+22	7,150014E+22	7,149920E+22	1,482512E+23	1,429993E+23	2,912505E+23
2573	7,412642E+22	7,412535E+22	7,149837E+22	7,149945E+22	1,482518E+23	1,429978E+23	2,912496E+23
2574	7,412441E+22	7,412437E+22	7,149870E+22	7,149893E+22	1,482488E+23	1,429976E+23	2,912464E+23
2575	7,412569E+22	7,412756E+22	7,149972E+22	7,149953E+22	1,482533E+23	1,429993E+23	2,912525E+23
2576	7,412519E+22	7,412452E+22	7,149845E+22	7,149848E+22	1,482497E+23	1,429969E+23	2,912466E+23
2577	7,412366E+22	7,412472E+22	7,149975E+22	7,149777E+22	1,482484E+23	1,429975E+23	2,912459E+23
2578	7,412587E+22	7,412568E+22	7,149896E+22	7,149873E+22	1,482516E+23	1,429977E+23	2,912493E+23
2579	7,412409E+22	7,412229E+22	7,149746E+22	7,149806E+22	1,482464E+23	1,429955E+23	2,912419E+23
2580	7,412315E+22	7,412492E+22	7,149845E+22	7,149812E+22	1,482481E+23	1,429966E+23	2,912447E+23
2581	7,412475E+22	7,412480E+22	7,149667E+22	7,149805E+22	1,482496E+23	1,429947E+23	2,912443E+23
2582	7,412317E+22	7,412229E+22	7,149680E+22	7,149699E+22	1,482455E+23	1,429938E+23	2,912392E+23
2583	7,412436E+22	7,412520E+22	7,149839E+22	7,149741E+22	1,482496E+23	1,429958E+23	2,912454E+23
2584	7,412497E+22	7,412351E+22	7,149717E+22	7,149702E+22	1,482485E+23	1,429942E+23	2,912427E+23
2585	7,412294E+22	7,412364E+22	7,149841E+22	7,149720E+22	1,482466E+23	1,429956E+23	2,912422E+23
2586	7,412484E+22	7,412627E+22	7,149864E+22	7,149906E+22	1,482511E+23	1,429977E+23	2,912488E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2587	7,412415E+22	7,412355E+22	7,149804E+22	7,149891E+22	1,482477E+23	1,429969E+23	2,912447E+23
2588	7,412334E+22	7,412506E+22	7,150021E+22	7,149915E+22	1,482484E+23	1,429994E+23	2,912478E+23
2589	7,412624E+22	7,412605E+22	7,149929E+22	7,149983E+22	1,482523E+23	1,429991E+23	2,912514E+23
2590	7,412540E+22	7,412331E+22	7,149911E+22	7,149948E+22	1,482487E+23	1,429986E+23	2,912473E+23
2591	7,412570E+22	7,412659E+22	7,150063E+22	7,150031E+22	1,482523E+23	1,430009E+23	2,912532E+23
2592	7,412686E+22	7,412646E+22	7,149900E+22	7,149996E+22	1,482533E+23	1,429990E+23	2,912523E+23
2593	7,412456E+22	7,412518E+22	7,149991E+22	7,149931E+22	1,482497E+23	1,429992E+23	2,912490E+23
2594	7,412611E+22	7,412741E+22	7,150062E+22	7,149992E+22	1,482535E+23	1,430005E+23	2,912541E+23
2595	7,412603E+22	7,412450E+22	7,149938E+22	7,149894E+22	1,482505E+23	1,429983E+23	2,912489E+23
2596	7,412391E+22	7,412461E+22	7,150049E+22	7,149890E+22	1,482485E+23	1,429994E+23	2,912479E+23
2597	7,412579E+22	7,412645E+22	7,149876E+22	7,149958E+22	1,482522E+23	1,429983E+23	2,912506E+23
2598	7,412439E+22	7,412323E+22	7,149762E+22	7,149888E+22	1,482476E+23	1,429965E+23	2,912441E+23
2599	7,412354E+22	7,412516E+22	7,149916E+22	7,149886E+22	1,482487E+23	1,429980E+23	2,912467E+23
2600	7,412571E+22	7,412527E+22	7,149771E+22	7,149805E+22	1,482510E+23	1,429958E+23	2,912468E+23
2601	7,412388E+22	7,412280E+22	7,149821E+22	7,149738E+22	1,482467E+23	1,429956E+23	2,912423E+23
2602	7,412487E+22	7,412552E+22	7,149917E+22	7,149840E+22	1,482504E+23	1,429976E+23	2,912480E+23
2603	7,412541E+22	7,412438E+22	7,149787E+22	7,149825E+22	1,482498E+23	1,429961E+23	2,912459E+23
2604	7,412278E+22	7,412422E+22	7,149933E+22	7,149884E+22	1,482470E+23	1,429982E+23	2,912452E+23
2605	7,412497E+22	7,412688E+22	7,149911E+22	7,149980E+22	1,482519E+23	1,429989E+23	2,912508E+23
2606	7,412521E+22	7,412376E+22	7,149892E+22	7,149949E+22	1,482490E+23	1,429984E+23	2,912474E+23
2607	7,412449E+22	7,412490E+22	7,150109E+22	7,149999E+22	1,482494E+23	1,430011E+23	2,912505E+23
2608	7,412741E+22	7,412675E+22	7,149991E+22	7,150026E+22	1,482542E+23	1,430002E+23	2,912543E+23
2609	7,412578E+22	7,412463E+22	7,149995E+22	7,150013E+22	1,482504E+23	1,430001E+23	2,912505E+23
2610	7,412583E+22	7,412745E+22	7,150115E+22	7,150105E+22	1,482533E+23	1,430022E+23	2,912555E+23
2611	7,412729E+22	7,412717E+22	7,150019E+22	7,150043E+22	1,482545E+23	1,430006E+23	2,912551E+23
2612	7,412472E+22	7,412520E+22	7,150138E+22	7,150021E+22	1,482499E+23	1,430016E+23	2,912515E+23
2613	7,412626E+22	7,412755E+22	7,150119E+22	7,150058E+22	1,482538E+23	1,430018E+23	2,912556E+23
2614	7,412660E+22	7,412481E+22	7,149988E+22	7,150007E+22	1,482514E+23	1,430000E+23	2,912514E+23
2615	7,412418E+22	7,412477E+22	7,150067E+22	7,150033E+22	1,482490E+23	1,430010E+23	2,912499E+23
2616	7,412633E+22	7,412713E+22	7,149898E+22	7,150016E+22	1,482535E+23	1,429991E+23	2,912526E+23
2617	7,412500E+22	7,412390E+22	7,149851E+22	7,149899E+22	1,482489E+23	1,429975E+23	2,912464E+23
2618	7,412446E+22	7,412513E+22	7,149977E+22	7,149895E+22	1,482496E+23	1,429987E+23	2,912483E+23
2619	7,412679E+22	7,412578E+22	7,149866E+22	7,149826E+22	1,482526E+23	1,429969E+23	2,912495E+23
2620	7,412408E+22	7,412338E+22	7,149913E+22	7,149845E+22	1,482475E+23	1,429976E+23	2,912450E+23
2621	7,412439E+22	7,412654E+22	7,149947E+22	7,149933E+22	1,482509E+23	1,429988E+23	2,912497E+23
2622	7,412549E+22	7,412529E+22	7,149870E+22	7,149941E+22	1,482508E+23	1,429981E+23	2,912489E+23
2623	7,412314E+22	7,412412E+22	7,150045E+22	7,150001E+22	1,482473E+23	1,430005E+23	2,912477E+23
2624	7,412612E+22	7,412697E+22	7,150023E+22	7,150029E+22	1,482531E+23	1,430005E+23	2,912536E+23
2625	7,412634E+22	7,412422E+22	7,150008E+22	7,150007E+22	1,482506E+23	1,430002E+23	2,912507E+23
2626	7,412545E+22	7,412533E+22	7,150143E+22	7,150096E+22	1,482508E+23	1,430024E+23	2,912532E+23
2627	7,412815E+22	7,412797E+22	7,150045E+22	7,150112E+22	1,482561E+23	1,430016E+23	2,912577E+23
2628	7,412577E+22	7,412560E+22	7,150089E+22	7,150126E+22	1,482514E+23	1,430021E+23	2,912535E+23
2629	7,412575E+22	7,412814E+22	7,150193E+22	7,150137E+22	1,482539E+23	1,430033E+23	2,912572E+23
2630	7,412800E+22	7,412743E+22	7,150128E+22	7,150098E+22	1,482554E+23	1,430023E+23	2,912577E+23
2631	7,412525E+22	7,412491E+22	7,150228E+22	7,150128E+22	1,482502E+23	1,430036E+23	2,912537E+23
2632	7,412688E+22	7,412794E+22	7,150158E+22	7,150132E+22	1,482548E+23	1,430029E+23	2,912577E+23
2633	7,412681E+22	7,412568E+22	7,150036E+22	7,150087E+22	1,482525E+23	1,430012E+23	2,912537E+23
2634	7,412459E+22	7,412524E+22	7,150077E+22	7,150104E+22	1,482498E+23	1,430018E+23	2,912516E+23
2635	7,412723E+22	7,412759E+22	7,149976E+22	7,150023E+22	1,482548E+23	1,430000E+23	2,912548E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2636	7,412547E+22	7,412414E+22	7,149969E+22	7,149947E+22	1,482496E+23	1,429992E+23	2,912488E+23
2637	7,412468E+22	7,412567E+22	7,150035E+22	7,149916E+22	1,482503E+23	1,429995E+23	2,912499E+23
2638	7,412715E+22	7,412648E+22	7,149934E+22	7,149926E+22	1,482536E+23	1,429986E+23	2,912522E+23
2639	7,412395E+22	7,412383E+22	7,149986E+22	7,150005E+22	1,482478E+23	1,429999E+23	2,912477E+23
2640	7,412470E+22	7,412708E+22	7,150020E+22	7,150022E+22	1,482518E+23	1,430004E+23	2,912522E+23
2641	7,412612E+22	7,412562E+22	7,150000E+22	7,149999E+22	1,482517E+23	1,430000E+23	2,912517E+23
2642	7,412438E+22	7,412394E+22	7,150105E+22	7,150064E+22	1,482483E+23	1,430017E+23	2,912500E+23
2643	7,412757E+22	7,412738E+22	7,150098E+22	7,150081E+22	1,482549E+23	1,430018E+23	2,912567E+23
2644	7,412681E+22	7,412523E+22	7,150079E+22	7,150119E+22	1,482520E+23	1,430020E+23	2,912540E+23
2645	7,412532E+22	7,412679E+22	7,150165E+22	7,150163E+22	1,482521E+23	1,430033E+23	2,912554E+23
2646	7,412839E+22	7,412920E+22	7,150141E+22	7,150198E+22	1,482576E+23	1,430034E+23	2,912610E+23
2647	7,412598E+22	7,412582E+22	7,150233E+22	7,150228E+22	1,482518E+23	1,430046E+23	2,912564E+23
2648	7,412641E+22	7,412822E+22	7,150323E+22	7,150194E+22	1,482546E+23	1,430052E+23	2,912598E+23
2649	7,412862E+22	7,412765E+22	7,150253E+22	7,150181E+22	1,482563E+23	1,430043E+23	2,912606E+23
2650	7,412591E+22	7,412486E+22	7,150232E+22	7,150250E+22	1,482508E+23	1,430048E+23	2,912556E+23
2651	7,412759E+22	7,412853E+22	7,150174E+22	7,150217E+22	1,482561E+23	1,430039E+23	2,912600E+23
2652	7,412705E+22	7,412631E+22	7,150073E+22	7,150157E+22	1,482534E+23	1,430023E+23	2,912557E+23
2653	7,412488E+22	7,412564E+22	7,150101E+22	7,150076E+22	1,482505E+23	1,430018E+23	2,912523E+23
2654	7,412814E+22	7,412801E+22	7,150055E+22	7,150029E+22	1,482561E+23	1,430008E+23	2,912570E+23
2655	7,412587E+22	7,412432E+22	7,150057E+22	7,150023E+22	1,482502E+23	1,430008E+23	2,912510E+23
2656	7,412482E+22	7,412641E+22	7,150105E+22	7,149987E+22	1,482512E+23	1,430009E+23	2,912522E+23
2657	7,412694E+22	7,412749E+22	7,150037E+22	7,150022E+22	1,482544E+23	1,430006E+23	2,912550E+23
2658	7,412417E+22	7,412403E+22	7,150046E+22	7,150119E+22	1,482482E+23	1,430017E+23	2,912498E+23
2659	7,412570E+22	7,412717E+22	7,150133E+22	7,150088E+22	1,482529E+23	1,430022E+23	2,912551E+23
2660	7,412692E+22	7,412579E+22	7,150107E+22	7,150104E+22	1,482527E+23	1,430021E+23	2,912548E+23
2661	7,412506E+22	7,412456E+22	7,150138E+22	7,150127E+22	1,482496E+23	1,430026E+23	2,912523E+23
2662	7,412841E+22	7,412852E+22	7,150143E+22	7,150193E+22	1,482569E+23	1,430034E+23	2,912603E+23
2663	7,412696E+22	7,412627E+22	7,150154E+22	7,150257E+22	1,482532E+23	1,430041E+23	2,912573E+23
2664	7,412572E+22	7,412774E+22	7,150271E+22	7,150214E+22	1,482535E+23	1,430049E+23	2,912583E+23
2665	7,412890E+22	7,412962E+22	7,150312E+22	7,150233E+22	1,482585E+23	1,430054E+23	2,912640E+23
2666	7,412691E+22	7,412557E+22	7,150326E+22	7,150306E+22	1,482525E+23	1,430063E+23	2,912588E+23
2667	7,412749E+22	7,412825E+22	7,150396E+22	7,150264E+22	1,482557E+23	1,430066E+23	2,912623E+23
2668	7,412871E+22	7,412817E+22	7,150292E+22	7,150309E+22	1,482569E+23	1,430060E+23	2,912629E+23
2669	7,412580E+22	7,412578E+22	7,150204E+22	7,150302E+22	1,482516E+23	1,430051E+23	2,912566E+23
2670	7,412810E+22	7,412922E+22	7,150208E+22	7,150265E+22	1,482573E+23	1,430047E+23	2,912620E+23
2671	7,412744E+22	7,412652E+22	7,150172E+22	7,150204E+22	1,482540E+23	1,430038E+23	2,912577E+23
2672	7,412561E+22	7,412601E+22	7,150198E+22	7,150078E+22	1,482516E+23	1,430028E+23	2,912544E+23
2673	7,412846E+22	7,412857E+22	7,150183E+22	7,150077E+22	1,482570E+23	1,430026E+23	2,912596E+23
2674	7,412607E+22	7,412467E+22	7,150099E+22	7,150154E+22	1,482507E+23	1,430025E+23	2,912533E+23
2675	7,412510E+22	7,412691E+22	7,150173E+22	7,150102E+22	1,482520E+23	1,430027E+23	2,912548E+23
2676	7,412692E+22	7,412782E+22	7,150130E+22	7,150147E+22	1,482547E+23	1,430028E+23	2,912575E+23
2677	7,412471E+22	7,412414E+22	7,150087E+22	7,150153E+22	1,482489E+23	1,430024E+23	2,912512E+23
2678	7,412707E+22	7,412743E+22	7,150192E+22	7,150155E+22	1,482545E+23	1,430035E+23	2,912580E+23
2679	7,412776E+22	7,412632E+22	7,150172E+22	7,150209E+22	1,482541E+23	1,430038E+23	2,912579E+23
2680	7,412566E+22	7,412580E+22	7,150196E+22	7,150191E+22	1,482515E+23	1,430039E+23	2,912553E+23
2681	7,412856E+22	7,412997E+22	7,150274E+22	7,150259E+22	1,482585E+23	1,430053E+23	2,912639E+23
2682	7,412738E+22	7,412674E+22	7,150262E+22	7,150345E+22	1,482541E+23	1,430061E+23	2,912602E+23
2683	7,412655E+22	7,412783E+22	7,150431E+22	7,150275E+22	1,482544E+23	1,430071E+23	2,912614E+23
2684	7,412927E+22	7,412972E+22	7,150438E+22	7,150348E+22	1,482590E+23	1,430079E+23	2,912669E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2685	7,412721E+22	7,412571E+22	7,150343E+22	7,150392E+22	1,482529E+23	1,430073E+23	2,912603E+23
2686	7,412812E+22	7,412886E+22	7,150399E+22	7,150393E+22	1,482570E+23	1,430079E+23	2,912649E+23
2687	7,412889E+22	7,412879E+22	7,150309E+22	7,150428E+22	1,482577E+23	1,430074E+23	2,912651E+23
2688	7,412641E+22	7,412644E+22	7,150251E+22	7,150304E+22	1,482529E+23	1,430056E+23	2,912584E+23
2689	7,412880E+22	7,412970E+22	7,150331E+22	7,150237E+22	1,482585E+23	1,430057E+23	2,912642E+23
2690	7,412824E+22	7,412657E+22	7,150241E+22	7,150237E+22	1,482548E+23	1,430048E+23	2,912596E+23
2691	7,412624E+22	7,412638E+22	7,150291E+22	7,150133E+22	1,482526E+23	1,430042E+23	2,912569E+23
2692	7,412796E+22	7,412934E+22	7,150259E+22	7,150211E+22	1,482573E+23	1,430047E+23	2,912620E+23
2693	7,412564E+22	7,412533E+22	7,150123E+22	7,150246E+22	1,482510E+23	1,430037E+23	2,912547E+23
2694	7,412565E+22	7,412717E+22	7,150242E+22	7,150206E+22	1,482528E+23	1,430045E+23	2,912573E+23
2695	7,412756E+22	7,412769E+22	7,150234E+22	7,150254E+22	1,482553E+23	1,430049E+23	2,912601E+23
2696	7,412592E+22	7,412451E+22	7,150163E+22	7,150192E+22	1,482504E+23	1,430036E+23	2,912540E+23
2697	7,412800E+22	7,412819E+22	7,150293E+22	7,150213E+22	1,482562E+23	1,430051E+23	2,912613E+23
2698	7,412842E+22	7,412725E+22	7,150214E+22	7,150325E+22	1,482557E+23	1,430054E+23	2,912611E+23
2699	7,412632E+22	7,412678E+22	7,150293E+22	7,150265E+22	1,482531E+23	1,430056E+23	2,912587E+23
2700	7,412848E+22	7,413055E+22	7,150416E+22	7,150350E+22	1,482590E+23	1,430077E+23	2,912667E+23
2701	7,412774E+22	7,412691E+22	7,150355E+22	7,150386E+22	1,482546E+23	1,430074E+23	2,912620E+23
2702	7,412754E+22	7,412789E+22	7,150503E+22	7,150379E+22	1,482554E+23	1,430088E+23	2,912642E+23
2703	7,412961E+22	7,412995E+22	7,150495E+22	7,150494E+22	1,482596E+23	1,430099E+23	2,912695E+23
2704	7,412764E+22	7,412669E+22	7,150353E+22	7,150466E+22	1,482543E+23	1,430082E+23	2,912625E+23
2705	7,412844E+22	7,412986E+22	7,150470E+22	7,150437E+22	1,482583E+23	1,430091E+23	2,912674E+23
2706	7,412954E+22	7,412916E+22	7,150372E+22	7,150471E+22	1,482587E+23	1,430084E+23	2,912671E+23
2707	7,412743E+22	7,412662E+22	7,150376E+22	7,150308E+22	1,482541E+23	1,430068E+23	2,912609E+23
2708	7,412894E+22	7,413001E+22	7,150456E+22	7,150306E+22	1,482589E+23	1,430076E+23	2,912666E+23
2709	7,412822E+22	7,412696E+22	7,150279E+22	7,150308E+22	1,482552E+23	1,430059E+23	2,912610E+23
2710	7,412643E+22	7,412697E+22	7,150319E+22	7,150277E+22	1,482534E+23	1,430060E+23	2,912594E+23
2711	7,412778E+22	7,412967E+22	7,150315E+22	7,150358E+22	1,482574E+23	1,430067E+23	2,912642E+23
2712	7,412627E+22	7,412552E+22	7,150188E+22	7,150283E+22	1,482518E+23	1,430047E+23	2,912565E+23
2713	7,412679E+22	7,412733E+22	7,150353E+22	7,150220E+22	1,482541E+23	1,430057E+23	2,912599E+23
2714	7,412890E+22	7,412776E+22	7,150273E+22	7,150312E+22	1,482567E+23	1,430059E+23	2,912625E+23
2715	7,412701E+22	7,412524E+22	7,150237E+22	7,150244E+22	1,482523E+23	1,430048E+23	2,912571E+23
2716	7,412784E+22	7,412957E+22	7,150376E+22	7,150314E+22	1,482574E+23	1,430069E+23	2,912643E+23
2717	7,412819E+22	7,412827E+22	7,150277E+22	7,150386E+22	1,482565E+23	1,430066E+23	2,912631E+23
2718	7,412680E+22	7,412733E+22	7,150415E+22	7,150369E+22	1,482541E+23	1,430078E+23	2,912620E+23
2719	7,412876E+22	7,413058E+22	7,150556E+22	7,150479E+22	1,482593E+23	1,430104E+23	2,912697E+23
2720	7,412852E+22	7,412714E+22	7,150447E+22	7,150471E+22	1,482557E+23	1,430092E+23	2,912648E+23
2721	7,412826E+22	7,412842E+22	7,150585E+22	7,150480E+22	1,482567E+23	1,430106E+23	2,912673E+23
2722	7,413025E+22	7,413049E+22	7,150500E+22	7,150624E+22	1,482607E+23	1,430112E+23	2,912720E+23
2723	7,412854E+22	7,412738E+22	7,150415E+22	7,150511E+22	1,482559E+23	1,430093E+23	2,912652E+23
2724	7,412878E+22	7,413039E+22	7,150572E+22	7,150464E+22	1,482592E+23	1,430104E+23	2,912695E+23
2725	7,413010E+22	7,412940E+22	7,150434E+22	7,150452E+22	1,482595E+23	1,430089E+23	2,912684E+23
2726	7,412827E+22	7,412700E+22	7,150440E+22	7,150372E+22	1,482553E+23	1,430081E+23	2,912634E+23
2727	7,412867E+22	7,413044E+22	7,150529E+22	7,150434E+22	1,482591E+23	1,430096E+23	2,912687E+23
2728	7,412809E+22	7,412782E+22	7,150324E+22	7,150391E+22	1,482559E+23	1,430071E+23	2,912631E+23
2729	7,412657E+22	7,412744E+22	7,150409E+22	7,150347E+22	1,482540E+23	1,430076E+23	2,912616E+23
2730	7,412847E+22	7,412949E+22	7,150384E+22	7,150441E+22	1,482580E+23	1,430082E+23	2,912662E+23
2731	7,412764E+22	7,412554E+22	7,150281E+22	7,150309E+22	1,482532E+23	1,430059E+23	2,912591E+23
2732	7,412735E+22	7,412774E+22	7,150434E+22	7,150293E+22	1,482551E+23	1,430073E+23	2,912624E+23
2733	7,412927E+22	7,412859E+22	7,150294E+22	7,150375E+22	1,482579E+23	1,430067E+23	2,912645E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2734	7,412749E+22	7,412646E+22	7,150275E+22	7,150367E+22	1,482539E+23	1,430064E+23	2,912604E+23
2735	7,412760E+22	7,413033E+22	7,150487E+22	7,150439E+22	1,482579E+23	1,430093E+23	2,912672E+23
2736	7,412866E+22	7,412878E+22	7,150403E+22	7,150425E+22	1,482574E+23	1,430083E+23	2,912657E+23
2737	7,412767E+22	7,412748E+22	7,150564E+22	7,150424E+22	1,482552E+23	1,430099E+23	2,912650E+23
2738	7,412972E+22	7,413053E+22	7,150623E+22	7,150597E+22	1,482602E+23	1,430122E+23	2,912724E+23
2739	7,412953E+22	7,412768E+22	7,150510E+22	7,150564E+22	1,482572E+23	1,430107E+23	2,912679E+23
2740	7,412834E+22	7,412947E+22	7,150638E+22	7,150588E+22	1,482578E+23	1,430123E+23	2,912701E+23
2741	7,413054E+22	7,413119E+22	7,150533E+22	7,150657E+22	1,482617E+23	1,430119E+23	2,912736E+23
2742	7,412942E+22	7,412795E+22	7,150498E+22	7,150560E+22	1,482574E+23	1,430106E+23	2,912680E+23
2743	7,412910E+22	7,413063E+22	7,150691E+22	7,150531E+22	1,482597E+23	1,430122E+23	2,912719E+23
2744	7,413056E+22	7,412984E+22	7,150518E+22	7,150493E+22	1,482604E+23	1,430101E+23	2,912705E+23
2745	7,412848E+22	7,412766E+22	7,150527E+22	7,150465E+22	1,482561E+23	1,430099E+23	2,912661E+23
2746	7,412874E+22	7,413078E+22	7,150542E+22	7,150568E+22	1,482595E+23	1,430111E+23	2,912706E+23
2747	7,412865E+22	7,412795E+22	7,150396E+22	7,150453E+22	1,482566E+23	1,430085E+23	2,912651E+23
2748	7,412698E+22	7,412756E+22	7,150493E+22	7,150392E+22	1,482545E+23	1,430089E+23	2,912634E+23
2749	7,412935E+22	7,412938E+22	7,150409E+22	7,150445E+22	1,482587E+23	1,430085E+23	2,912673E+23
2750	7,412877E+22	7,412619E+22	7,150311E+22	7,150376E+22	1,482550E+23	1,430069E+23	2,912618E+23
2751	7,412737E+22	7,412876E+22	7,150489E+22	7,150398E+22	1,482561E+23	1,430089E+23	2,912650E+23
2752	7,412927E+22	7,412997E+22	7,150362E+22	7,150430E+22	1,482592E+23	1,430079E+23	2,912672E+23
2753	7,412767E+22	7,412739E+22	7,150427E+22	7,150434E+22	1,482551E+23	1,430086E+23	2,912637E+23
2754	7,412807E+22	7,413032E+22	7,150622E+22	7,150545E+22	1,482584E+23	1,430117E+23	2,912701E+23
2755	7,412978E+22	7,412870E+22	7,150558E+22	7,150509E+22	1,482585E+23	1,430107E+23	2,912692E+23
2756	7,412823E+22	7,412774E+22	7,150666E+22	7,150553E+22	1,482560E+23	1,430122E+23	2,912682E+23
2757	7,413029E+22	7,413099E+22	7,150630E+22	7,150705E+22	1,482613E+23	1,430134E+23	2,912746E+23
2758	7,413039E+22	7,412878E+22	7,150514E+22	7,150685E+22	1,482592E+23	1,430120E+23	2,912712E+23
2759	7,412861E+22	7,413016E+22	7,150710E+22	7,150672E+22	1,482588E+23	1,430138E+23	2,912726E+23
2760	7,413133E+22	7,413183E+22	7,150628E+22	7,150642E+22	1,482632E+23	1,430127E+23	2,912759E+23
2761	7,413029E+22	7,412843E+22	7,150617E+22	7,150568E+22	1,482587E+23	1,430119E+23	2,912706E+23
2762	7,412945E+22	7,413082E+22	7,150756E+22	7,150620E+22	1,482603E+23	1,430138E+23	2,912740E+23
2763	7,413084E+22	7,413044E+22	7,150589E+22	7,150570E+22	1,482613E+23	1,430116E+23	2,912729E+23
2764	7,412799E+22	7,412828E+22	7,150588E+22	7,150569E+22	1,482563E+23	1,430116E+23	2,912678E+23
2765	7,412883E+22	7,413077E+22	7,150578E+22	7,150619E+22	1,482596E+23	1,430120E+23	2,912716E+23
2766	7,412963E+22	7,412809E+22	7,150446E+22	7,150518E+22	1,482577E+23	1,430096E+23	2,912674E+23
2767	7,412753E+22	7,412765E+22	7,150564E+22	7,150470E+22	1,482552E+23	1,430103E+23	2,912655E+23
2768	7,413008E+22	7,413004E+22	7,150457E+22	7,150475E+22	1,482601E+23	1,430093E+23	2,912694E+23
2769	7,412922E+22	7,412735E+22	7,150383E+22	7,150449E+22	1,482566E+23	1,430083E+23	2,912649E+23
2770	7,412748E+22	7,412956E+22	7,150553E+22	7,150510E+22	1,482570E+23	1,430106E+23	2,912677E+23
2771	7,412986E+22	7,413040E+22	7,150504E+22	7,150485E+22	1,482603E+23	1,430099E+23	2,912702E+23
2772	7,412804E+22	7,412759E+22	7,150583E+22	7,150508E+22	1,482556E+23	1,430109E+23	2,912665E+23
2773	7,412892E+22	7,413011E+22	7,150692E+22	7,150616E+22	1,482590E+23	1,430131E+23	2,912721E+23
2774	7,413084E+22	7,412924E+22	7,150597E+22	7,150647E+22	1,482601E+23	1,430124E+23	2,912725E+23
2775	7,412843E+22	7,412868E+22	7,150701E+22	7,150703E+22	1,482571E+23	1,430140E+23	2,912711E+23
2776	7,413069E+22	7,413212E+22	7,150667E+22	7,150760E+22	1,482628E+23	1,430143E+23	2,912771E+23
2777	7,413104E+22	7,412984E+22	7,150628E+22	7,150719E+22	1,482609E+23	1,430135E+23	2,912743E+23
2778	7,412935E+22	7,413049E+22	7,150810E+22	7,150720E+22	1,482598E+23	1,430153E+23	2,912751E+23
2779	7,413222E+22	7,413200E+22	7,150765E+22	7,150674E+22	1,482642E+23	1,430144E+23	2,912786E+23
2780	7,413030E+22	7,412894E+22	7,150728E+22	7,150665E+22	1,482592E+23	1,430139E+23	2,912732E+23
2781	7,412937E+22	7,413106E+22	7,150768E+22	7,150725E+22	1,482604E+23	1,430149E+23	2,912754E+23
2782	7,413108E+22	7,413102E+22	7,150604E+22	7,150698E+22	1,482621E+23	1,430130E+23	2,912751E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2783	7,412810E+22	7,412837E+22	7,150644E+22	7,150654E+22	1,482565E+23	1,430130E+23	2,912694E+23
2784	7,412971E+22	7,413076E+22	7,150631E+22	7,150607E+22	1,482605E+23	1,430124E+23	2,912729E+23
2785	7,413075E+22	7,412854E+22	7,150515E+22	7,150529E+22	1,482593E+23	1,430104E+23	2,912697E+23
2786	7,412817E+22	7,412818E+22	7,150599E+22	7,150543E+22	1,482563E+23	1,430114E+23	2,912678E+23
2787	7,413051E+22	7,413104E+22	7,150542E+22	7,150532E+22	1,482615E+23	1,430107E+23	2,912723E+23
2788	7,412891E+22	7,412845E+22	7,150502E+22	7,150536E+22	1,482574E+23	1,430104E+23	2,912677E+23
2789	7,412759E+22	7,412972E+22	7,150658E+22	7,150582E+22	1,482573E+23	1,430124E+23	2,912697E+23
2790	7,413066E+22	7,413067E+22	7,150616E+22	7,150600E+22	1,482613E+23	1,430122E+23	2,912735E+23
2791	7,412850E+22	7,412761E+22	7,150687E+22	7,150654E+22	1,482561E+23	1,430134E+23	2,912695E+23
2792	7,412971E+22	7,413060E+22	7,150744E+22	7,150715E+22	1,482603E+23	1,430146E+23	2,912749E+23
2793	7,413162E+22	7,413039E+22	7,150630E+22	7,150758E+22	1,482620E+23	1,430139E+23	2,912759E+23
2794	7,412898E+22	7,412948E+22	7,150733E+22	7,150809E+22	1,482585E+23	1,430154E+23	2,912739E+23
2795	7,413172E+22	7,413269E+22	7,150788E+22	7,150767E+22	1,482644E+23	1,430156E+23	2,912800E+23
2796	7,413157E+22	7,413033E+22	7,150768E+22	7,150731E+22	1,482619E+23	1,430150E+23	2,912769E+23
2797	7,412993E+22	7,413053E+22	7,150887E+22	7,150756E+22	1,482605E+23	1,430164E+23	2,912769E+23
2798	7,413264E+22	7,413268E+22	7,150813E+22	7,150784E+22	1,482653E+23	1,430160E+23	2,912813E+23
2799	7,412983E+22	7,412957E+22	7,150780E+22	7,150808E+22	1,482594E+23	1,430159E+23	2,912753E+23
2800	7,412933E+22	7,413149E+22	7,150811E+22	7,150784E+22	1,482608E+23	1,430159E+23	2,912768E+23
2801	7,413164E+22	7,413131E+22	7,150685E+22	7,150749E+22	1,482630E+23	1,430143E+23	2,912773E+23
2802	7,412895E+22	7,412823E+22	7,150702E+22	7,150714E+22	1,482572E+23	1,430142E+23	2,912713E+23
2803	7,413093E+22	7,413085E+22	7,150717E+22	7,150630E+22	1,482618E+23	1,430135E+23	2,912752E+23
2804	7,413103E+22	7,412942E+22	7,150594E+22	7,150595E+22	1,482605E+23	1,430119E+23	2,912724E+23
2805	7,412831E+22	7,412893E+22	7,150621E+22	7,150624E+22	1,482572E+23	1,430125E+23	2,912697E+23
2806	7,413070E+22	7,413198E+22	7,150609E+22	7,150641E+22	1,482627E+23	1,430125E+23	2,912752E+23
2807	7,412892E+22	7,412876E+22	7,150630E+22	7,150643E+22	1,482577E+23	1,430127E+23	2,912704E+23
2808	7,412830E+22	7,412962E+22	7,150755E+22	7,150626E+22	1,482579E+23	1,430138E+23	2,912717E+23
2809	7,413160E+22	7,413105E+22	7,150701E+22	7,150696E+22	1,482627E+23	1,430140E+23	2,912766E+23
2810	7,412920E+22	7,412818E+22	7,150709E+22	7,150782E+22	1,482574E+23	1,430149E+23	2,912723E+23
2811	7,413048E+22	7,413143E+22	7,150802E+22	7,150790E+22	1,482619E+23	1,430159E+23	2,912778E+23
2812	7,413182E+22	7,413157E+22	7,150740E+22	7,150815E+22	1,482634E+23	1,430155E+23	2,912789E+23
2813	7,412966E+22	7,412983E+22	7,150827E+22	7,150838E+22	1,482595E+23	1,430166E+23	2,912761E+23
2814	7,413259E+22	7,413319E+22	7,150908E+22	7,150832E+22	1,482658E+23	1,430174E+23	2,912832E+23
2815	7,413177E+22	7,413065E+22	7,150891E+22	7,150844E+22	1,482624E+23	1,430174E+23	2,912798E+23
2816	7,413008E+22	7,413094E+22	7,150947E+22	7,150846E+22	1,482610E+23	1,430179E+23	2,912789E+23
2817	7,413272E+22	7,413354E+22	7,150852E+22	7,150911E+22	1,482663E+23	1,430176E+23	2,912839E+23
2818	7,413005E+22	7,412979E+22	7,150809E+22	7,150922E+22	1,482598E+23	1,430173E+23	2,912771E+23
2819	7,413039E+22	7,413131E+22	7,150900E+22	7,150800E+22	1,482617E+23	1,430170E+23	2,912787E+23
2820	7,413244E+22	7,413152E+22	7,150775E+22	7,150755E+22	1,482640E+23	1,430153E+23	2,912793E+23
2821	7,412984E+22	7,412837E+22	7,150722E+22	7,150741E+22	1,482582E+23	1,430146E+23	2,912728E+23
2822	7,413144E+22	7,413192E+22	7,150744E+22	7,150708E+22	1,482634E+23	1,430145E+23	2,912779E+23
2823	7,413059E+22	7,413048E+22	7,150664E+22	7,150705E+22	1,482611E+23	1,430137E+23	2,912748E+23
2824	7,412818E+22	7,412960E+22	7,150716E+22	7,150677E+22	1,482578E+23	1,430139E+23	2,912717E+23
2825	7,413104E+22	7,413244E+22	7,150729E+22	7,150716E+22	1,482635E+23	1,430144E+23	2,912779E+23
2826	7,412951E+22	7,412853E+22	7,150730E+22	7,150759E+22	1,482580E+23	1,430149E+23	2,912729E+23
2827	7,412947E+22	7,412951E+22	7,150858E+22	7,150711E+22	1,482590E+23	1,430157E+23	2,912747E+23
2828	7,413210E+22	7,413174E+22	7,150770E+22	7,150801E+22	1,482638E+23	1,430157E+23	2,912795E+23
2829	7,412985E+22	7,412889E+22	7,150716E+22	7,150877E+22	1,482587E+23	1,430159E+23	2,912747E+23
2830	7,413131E+22	7,413246E+22	7,150860E+22	7,150862E+22	1,482638E+23	1,430172E+23	2,912810E+23
2831	7,413225E+22	7,413213E+22	7,150870E+22	7,150869E+22	1,482644E+23	1,430174E+23	2,912818E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2832	7,413039E+22	7,413017E+22	7,150938E+22	7,150850E+22	1,482606E+23	1,430179E+23	2,912785E+23
2833	7,413308E+22	7,413390E+22	7,151000E+22	7,150922E+22	1,482670E+23	1,430192E+23	2,912862E+23
2834	7,413181E+22	7,413122E+22	7,150948E+22	7,150992E+22	1,482630E+23	1,430194E+23	2,912824E+23
2835	7,413041E+22	7,413138E+22	7,151019E+22	7,150942E+22	1,482618E+23	1,430196E+23	2,912814E+23
2836	7,413277E+22	7,413406E+22	7,150949E+22	7,150980E+22	1,482668E+23	1,430193E+23	2,912861E+23
2837	7,413090E+22	7,412967E+22	7,150854E+22	7,150960E+22	1,482606E+23	1,430181E+23	2,912787E+23
2838	7,413153E+22	7,413156E+22	7,150953E+22	7,150850E+22	1,482631E+23	1,430180E+23	2,912811E+23
2839	7,413284E+22	7,413202E+22	7,150849E+22	7,150834E+22	1,482649E+23	1,430168E+23	2,912817E+23
2840	7,413009E+22	7,412916E+22	7,150749E+22	7,150786E+22	1,482593E+23	1,430154E+23	2,912746E+23
2841	7,413135E+22	7,413309E+22	7,150793E+22	7,150799E+22	1,482644E+23	1,430159E+23	2,912804E+23
2842	7,413060E+22	7,413087E+22	7,150748E+22	7,150797E+22	1,482615E+23	1,430154E+23	2,912769E+23
2843	7,412899E+22	7,412925E+22	7,150849E+22	7,150707E+22	1,482582E+23	1,430156E+23	2,912738E+23
2844	7,413163E+22	7,413245E+22	7,150856E+22	7,150767E+22	1,482641E+23	1,430162E+23	2,912803E+23
2845	7,413046E+22	7,412856E+22	7,150754E+22	7,150846E+22	1,482590E+23	1,430160E+23	2,912750E+23
2846	7,413024E+22	7,413045E+22	7,150876E+22	7,150827E+22	1,482607E+23	1,430170E+23	2,912777E+23
2847	7,413216E+22	7,413284E+22	7,150837E+22	7,150912E+22	1,482650E+23	1,430175E+23	2,912825E+23
2848	7,413026E+22	7,412975E+22	7,150805E+22	7,150906E+22	1,482600E+23	1,430171E+23	2,912771E+23
2849	7,413195E+22	7,413334E+22	7,150985E+22	7,150919E+22	1,482653E+23	1,430190E+23	2,912843E+23
2850	7,413285E+22	7,413242E+22	7,150999E+22	7,150972E+22	1,482653E+23	1,430197E+23	2,912850E+23
2851	7,413119E+22	7,413037E+22	7,151068E+22	7,150945E+22	1,482616E+23	1,430201E+23	2,912817E+23
2852	7,413306E+22	7,413469E+22	7,151091E+22	7,151043E+22	1,482678E+23	1,430213E+23	2,912891E+23
2853	7,413213E+22	7,413157E+22	7,150962E+22	7,151118E+22	1,482637E+23	1,430208E+23	2,912845E+23
2854	7,413122E+22	7,413175E+22	7,151063E+22	7,151022E+22	1,482630E+23	1,430209E+23	2,912838E+23
2855	7,413342E+22	7,413400E+22	7,151031E+22	7,151023E+22	1,482674E+23	1,430205E+23	2,912880E+23
2856	7,413184E+22	7,412989E+22	7,150896E+22	7,150943E+22	1,482617E+23	1,430184E+23	2,912801E+23
2857	7,413218E+22	7,413253E+22	7,150971E+22	7,150889E+22	1,482647E+23	1,430186E+23	2,912833E+23
2858	7,413276E+22	7,413286E+22	7,150885E+22	7,150918E+22	1,482656E+23	1,430180E+23	2,912836E+23
2859	7,413021E+22	7,412981E+22	7,150849E+22	7,150836E+22	1,482600E+23	1,430168E+23	2,912769E+23
2860	7,413108E+22	7,413357E+22	7,150934E+22	7,150844E+22	1,482647E+23	1,430178E+23	2,912824E+23
2861	7,413116E+22	7,413055E+22	7,150841E+22	7,150871E+22	1,482617E+23	1,430171E+23	2,912788E+23
2862	7,413000E+22	7,412924E+22	7,150925E+22	7,150805E+22	1,482592E+23	1,430173E+23	2,912765E+23
2863	7,413208E+22	7,413265E+22	7,150927E+22	7,150898E+22	1,482647E+23	1,430183E+23	2,912830E+23
2864	7,413095E+22	7,412945E+22	7,150762E+22	7,150927E+22	1,482604E+23	1,430169E+23	2,912773E+23
2865	7,413074E+22	7,413186E+22	7,150895E+22	7,150928E+22	1,482626E+23	1,430182E+23	2,912808E+23
2866	7,413267E+22	7,413354E+22	7,150936E+22	7,150989E+22	1,482662E+23	1,430193E+23	2,912855E+23
2867	7,413142E+22	7,413002E+22	7,150961E+22	7,150923E+22	1,482614E+23	1,430188E+23	2,912803E+23
2868	7,413243E+22	7,413392E+22	7,151142E+22	7,150966E+22	1,482663E+23	1,430211E+23	2,912874E+23
2869	7,413344E+22	7,413281E+22	7,151063E+22	7,151087E+22	1,482663E+23	1,430215E+23	2,912878E+23
2870	7,413159E+22	7,413115E+22	7,151119E+22	7,151084E+22	1,482627E+23	1,430220E+23	2,912848E+23
2871	7,413294E+22	7,413528E+22	7,151175E+22	7,151171E+22	1,482682E+23	1,430235E+23	2,912917E+23
2872	7,413265E+22	7,413188E+22	7,151013E+22	7,151146E+22	1,482645E+23	1,430216E+23	2,912861E+23
2873	7,413211E+22	7,413220E+22	7,151111E+22	7,151069E+22	1,482643E+23	1,430218E+23	2,912861E+23
2874	7,413421E+22	7,413415E+22	7,151098E+22	7,151082E+22	1,482684E+23	1,430218E+23	2,912902E+23
2875	7,413265E+22	7,413026E+22	7,150968E+22	7,150974E+22	1,482629E+23	1,430194E+23	2,912823E+23
2876	7,413196E+22	7,413361E+22	7,151050E+22	7,150941E+22	1,482656E+23	1,430199E+23	2,912855E+23
2877	7,413282E+22	7,413338E+22	7,150922E+22	7,150999E+22	1,482662E+23	1,430192E+23	2,912854E+23
2878	7,413065E+22	7,413002E+22	7,150942E+22	7,150903E+22	1,482607E+23	1,430184E+23	2,912791E+23
2879	7,413136E+22	7,413331E+22	7,151054E+22	7,150919E+22	1,482647E+23	1,430197E+23	2,912844E+23
2880	7,413183E+22	7,413054E+22	7,150884E+22	7,150921E+22	1,482624E+23	1,430181E+23	2,912804E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2881	7,413066E+22	7,413015E+22	7,150923E+22	7,150919E+22	1,482608E+23	1,430184E+23	2,912792E+23
2882	7,413239E+22	7,413351E+22	7,150957E+22	7,151021E+22	1,482659E+23	1,430198E+23	2,912857E+23
2883	7,413163E+22	7,413038E+22	7,150855E+22	7,150973E+22	1,482620E+23	1,430183E+23	2,912803E+23
2884	7,413111E+22	7,413283E+22	7,151050E+22	7,150947E+22	1,482639E+23	1,430200E+23	2,912839E+23
2885	7,413356E+22	7,413375E+22	7,151058E+22	7,151057E+22	1,482673E+23	1,430212E+23	2,912885E+23
2886	7,413238E+22	7,413043E+22	7,151093E+22	7,151029E+22	1,482628E+23	1,430212E+23	2,912840E+23
2887	7,413253E+22	7,413425E+22	7,151252E+22	7,151116E+22	1,482668E+23	1,430237E+23	2,912905E+23
2888	7,413354E+22	7,413349E+22	7,151093E+22	7,151202E+22	1,482670E+23	1,430230E+23	2,912900E+23
2889	7,413205E+22	7,413209E+22	7,151124E+22	7,151199E+22	1,482641E+23	1,430232E+23	2,912874E+23
2890	7,413360E+22	7,413521E+22	7,151244E+22	7,151236E+22	1,482688E+23	1,430248E+23	2,912936E+23
2891	7,413399E+22	7,413191E+22	7,151105E+22	7,151130E+22	1,482659E+23	1,430224E+23	2,912882E+23
2892	7,413280E+22	7,413286E+22	7,151191E+22	7,151063E+22	1,482657E+23	1,430225E+23	2,912882E+23
2893	7,413468E+22	7,413477E+22	7,151120E+22	7,151146E+22	1,482694E+23	1,430227E+23	2,912921E+23
2894	7,413275E+22	7,413133E+22	7,151023E+22	7,151054E+22	1,482641E+23	1,430208E+23	2,912848E+23
2895	7,413136E+22	7,413414E+22	7,151161E+22	7,151033E+22	1,482655E+23	1,430219E+23	2,912874E+23
2896	7,413277E+22	7,413352E+22	7,151010E+22	7,151042E+22	1,482663E+23	1,430205E+23	2,912868E+23
2897	7,413124E+22	7,413024E+22	7,150998E+22	7,151001E+22	1,482615E+23	1,430200E+23	2,912815E+23
2898	7,413202E+22	7,413306E+22	7,151128E+22	7,151040E+22	1,482651E+23	1,430217E+23	2,912868E+23
2899	7,413281E+22	7,413092E+22	7,150934E+22	7,151002E+22	1,482637E+23	1,430194E+23	2,912831E+23
2900	7,413098E+22	7,413138E+22	7,150973E+22	7,150989E+22	1,482624E+23	1,430196E+23	2,912820E+23
2901	7,413311E+22	7,413423E+22	7,151002E+22	7,151095E+22	1,482673E+23	1,430210E+23	2,912883E+23
2902	7,413265E+22	7,413093E+22	7,150981E+22	7,151008E+22	1,482636E+23	1,430199E+23	2,912835E+23
2903	7,413161E+22	7,413309E+22	7,151215E+22	7,151007E+22	1,482647E+23	1,430222E+23	2,912869E+23
2904	7,413404E+22	7,413422E+22	7,151136E+22	7,151117E+22	1,482683E+23	1,430225E+23	2,912908E+23
2905	7,413265E+22	7,413144E+22	7,151125E+22	7,151177E+22	1,482641E+23	1,430230E+23	2,912871E+23
2906	7,413253E+22	7,413479E+22	7,151318E+22	7,151270E+22	1,482673E+23	1,430259E+23	2,912932E+23
2907	7,413415E+22	7,413390E+22	7,151176E+22	7,151269E+22	1,482681E+23	1,430245E+23	2,912925E+23
2908	7,413265E+22	7,413266E+22	7,151232E+22	7,151223E+22	1,482653E+23	1,430246E+23	2,912899E+23
2909	7,413479E+22	7,413523E+22	7,151303E+22	7,151287E+22	1,482700E+23	1,430259E+23	2,912959E+23
2910	7,413502E+22	7,413241E+22	7,151184E+22	7,151181E+22	1,482674E+23	1,430237E+23	2,912911E+23
2911	7,413275E+22	7,413359E+22	7,151274E+22	7,151151E+22	1,482663E+23	1,430243E+23	2,912906E+23
2912	7,413437E+22	7,413566E+22	7,151144E+22	7,151214E+22	1,482700E+23	1,430236E+23	2,912936E+23
2913	7,413274E+22	7,413216E+22	7,151061E+22	7,151157E+22	1,482649E+23	1,430222E+23	2,912871E+23
2914	7,413163E+22	7,413372E+22	7,151269E+22	7,151115E+22	1,482654E+23	1,430238E+23	2,912892E+23
2915	7,413374E+22	7,413318E+22	7,151106E+22	7,151074E+22	1,482669E+23	1,430218E+23	2,912887E+23
2916	7,413193E+22	7,413071E+22	7,151057E+22	7,151044E+22	1,482626E+23	1,430210E+23	2,912836E+23
2917	7,413281E+22	7,413346E+22	7,151127E+22	7,151141E+22	1,482663E+23	1,430227E+23	2,912890E+23
2918	7,413347E+22	7,413203E+22	7,150985E+22	7,151075E+22	1,482655E+23	1,430206E+23	2,912861E+23
2919	7,413109E+22	7,413217E+22	7,151088E+22	7,151047E+22	1,482633E+23	1,430213E+23	2,912846E+23
2920	7,413343E+22	7,413474E+22	7,151108E+22	7,151117E+22	1,482682E+23	1,430222E+23	2,912904E+23
2921	7,413333E+22	7,413169E+22	7,151073E+22	7,151105E+22	1,482650E+23	1,430218E+23	2,912868E+23
2922	7,413195E+22	7,413307E+22	7,151335E+22	7,151149E+22	1,482650E+23	1,430248E+23	2,912899E+23
2923	7,413448E+22	7,413475E+22	7,151221E+22	7,151238E+22	1,482692E+23	1,430246E+23	2,912938E+23
2924	7,413282E+22	7,413253E+22	7,151184E+22	7,151284E+22	1,482653E+23	1,430247E+23	2,912900E+23
2925	7,413336E+22	7,413496E+22	7,151362E+22	7,151373E+22	1,482683E+23	1,430273E+23	2,912957E+23
2926	7,413546E+22	7,413414E+22	7,151273E+22	7,151300E+22	1,482696E+23	1,430257E+23	2,912953E+23
2927	7,413344E+22	7,413292E+22	7,151336E+22	7,151258E+22	1,482664E+23	1,430259E+23	2,912923E+23
2928	7,413526E+22	7,413589E+22	7,151336E+22	7,151314E+22	1,482712E+23	1,430265E+23	2,912977E+23
2929	7,413516E+22	7,413379E+22	7,151196E+22	7,151281E+22	1,482690E+23	1,430248E+23	2,912937E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2930	7,413239E+22	7,413416E+22	7,151364E+22	7,151261E+22	1,482666E+23	1,430262E+23	2,912928E+23
2931	7,413447E+22	7,413596E+22	7,151255E+22	7,151259E+22	1,482704E+23	1,430251E+23	2,912956E+23
2932	7,413301E+22	7,413236E+22	7,151185E+22	7,151198E+22	1,482654E+23	1,430238E+23	2,912892E+23
2933	7,413265E+22	7,413320E+22	7,151331E+22	7,151211E+22	1,482658E+23	1,430254E+23	2,912913E+23
2934	7,413484E+22	7,413318E+22	7,151163E+22	7,151159E+22	1,482680E+23	1,430232E+23	2,912912E+23
2935	7,413220E+22	7,413139E+22	7,151100E+22	7,151145E+22	1,482636E+23	1,430224E+23	2,912860E+23
2936	7,413301E+22	7,413449E+22	7,151114E+22	7,151190E+22	1,482675E+23	1,430230E+23	2,912905E+23
2937	7,413391E+22	7,413313E+22	7,151022E+22	7,151139E+22	1,482670E+23	1,430216E+23	2,912887E+23
2938	7,413158E+22	7,413223E+22	7,151237E+22	7,151102E+22	1,482638E+23	1,430234E+23	2,912872E+23
2939	7,413416E+22	7,413495E+22	7,151237E+22	7,151153E+22	1,482691E+23	1,430239E+23	2,912930E+23
2940	7,413363E+22	7,413253E+22	7,151182E+22	7,151194E+22	1,482662E+23	1,430238E+23	2,912899E+23
2941	7,413240E+22	7,413348E+22	7,151377E+22	7,151310E+22	1,482659E+23	1,430269E+23	2,912928E+23
2942	7,413500E+22	7,413541E+22	7,151302E+22	7,151354E+22	1,482704E+23	1,430266E+23	2,912970E+23
2943	7,413317E+22	7,413302E+22	7,151298E+22	7,151367E+22	1,482662E+23	1,430266E+23	2,912928E+23
2944	7,413416E+22	7,413524E+22	7,151423E+22	7,151404E+22	1,482694E+23	1,430283E+23	2,912977E+23
2945	7,413650E+22	7,413492E+22	7,151324E+22	7,151378E+22	1,482714E+23	1,430270E+23	2,912984E+23
2946	7,413397E+22	7,413323E+22	7,151434E+22	7,151356E+22	1,482672E+23	1,430279E+23	2,912951E+23
2947	7,413547E+22	7,413674E+22	7,151405E+22	7,151382E+22	1,482722E+23	1,430279E+23	2,913001E+23
2948	7,413503E+22	7,413494E+22	7,151276E+22	7,151347E+22	1,482700E+23	1,430262E+23	2,912962E+23
2949	7,413287E+22	7,413391E+22	7,151438E+22	7,151349E+22	1,482668E+23	1,430279E+23	2,912946E+23
2950	7,413539E+22	7,413567E+22	7,151368E+22	7,151299E+22	1,482711E+23	1,430267E+23	2,912977E+23
2951	7,413363E+22	7,413227E+22	7,151257E+22	7,151254E+22	1,482659E+23	1,430251E+23	2,912910E+23
2952	7,413308E+22	7,413350E+22	7,151309E+22	7,151268E+22	1,482666E+23	1,430258E+23	2,912923E+23
2953	7,413520E+22	7,413451E+22	7,151132E+22	7,151257E+22	1,482697E+23	1,430239E+23	2,912936E+23
2954	7,413222E+22	7,413205E+22	7,151170E+22	7,151222E+22	1,482643E+23	1,430239E+23	2,912882E+23
2955	7,413333E+22	7,413515E+22	7,151231E+22	7,151199E+22	1,482685E+23	1,430243E+23	2,912928E+23
2956	7,413436E+22	7,413392E+22	7,151171E+22	7,151163E+22	1,482683E+23	1,430233E+23	2,912916E+23
2957	7,413238E+22	7,413207E+22	7,151352E+22	7,151221E+22	1,482645E+23	1,430257E+23	2,912902E+23
2958	7,413482E+22	7,413523E+22	7,151354E+22	7,151277E+22	1,482700E+23	1,430263E+23	2,912964E+23
2959	7,413368E+22	7,413320E+22	7,151264E+22	7,151349E+22	1,482669E+23	1,430261E+23	2,912930E+23
2960	7,413271E+22	7,413406E+22	7,151391E+22	7,151417E+22	1,482668E+23	1,430281E+23	2,912949E+23
2961	7,413595E+22	7,413610E+22	7,151342E+22	7,151442E+22	1,482721E+23	1,430278E+23	2,912999E+23
2962	7,413423E+22	7,413301E+22	7,151417E+22	7,151417E+22	1,482672E+23	1,430283E+23	2,912956E+23
2963	7,413526E+22	7,413580E+22	7,151505E+22	7,151411E+22	1,482711E+23	1,430292E+23	2,913002E+23
2964	7,413692E+22	7,413622E+22	7,151406E+22	7,151423E+22	1,482731E+23	1,430283E+23	2,913014E+23
2965	7,413423E+22	7,413397E+22	7,151492E+22	7,151476E+22	1,482682E+23	1,430297E+23	2,912979E+23
2966	7,413557E+22	7,413729E+22	7,151511E+22	7,151455E+22	1,482729E+23	1,430297E+23	2,913025E+23
2967	7,413493E+22	7,413512E+22	7,151410E+22	7,151423E+22	1,482700E+23	1,430283E+23	2,912984E+23
2968	7,413331E+22	7,413369E+22	7,151478E+22	7,151399E+22	1,482670E+23	1,430288E+23	2,912958E+23
2969	7,413617E+22	7,413583E+22	7,151377E+22	7,151396E+22	1,482720E+23	1,430277E+23	2,912997E+23
2970	7,413409E+22	7,413236E+22	7,151306E+22	7,151355E+22	1,482664E+23	1,430266E+23	2,912931E+23
2971	7,413346E+22	7,413443E+22	7,151309E+22	7,151316E+22	1,482679E+23	1,430263E+23	2,912941E+23
2972	7,413540E+22	7,413581E+22	7,151192E+22	7,151284E+22	1,482712E+23	1,430248E+23	2,912960E+23
2973	7,413298E+22	7,413218E+22	7,151268E+22	7,151274E+22	1,482652E+23	1,430254E+23	2,912906E+23
2974	7,413418E+22	7,413517E+22	7,151385E+22	7,151219E+22	1,482693E+23	1,430260E+23	2,912954E+23
2975	7,413468E+22	7,413423E+22	7,151306E+22	7,151247E+22	1,482689E+23	1,430255E+23	2,912944E+23
2976	7,413258E+22	7,413249E+22	7,151380E+22	7,151336E+22	1,482651E+23	1,430272E+23	2,912922E+23
2977	7,413509E+22	7,413627E+22	7,151371E+22	7,151435E+22	1,482714E+23	1,430281E+23	2,912994E+23
2978	7,413399E+22	7,413359E+22	7,151360E+22	7,151471E+22	1,482676E+23	1,430283E+23	2,912959E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude ☉	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2979	7,413355E+22	7,413457E+22	7,151478E+22	7,151455E+22	1,482681E+23	1,430293E+23	2,912975E+23
2980	7,413700E+22	7,413695E+22	7,151457E+22	7,151471E+22	1,482740E+23	1,430293E+23	2,913032E+23
2981	7,413544E+22	7,413319E+22	7,151505E+22	7,151511E+22	1,482686E+23	1,430302E+23	2,912988E+23
2982	7,413594E+22	7,413654E+22	7,151613E+22	7,151487E+22	1,482725E+23	1,430310E+23	2,913035E+23
2983	7,413675E+22	7,413734E+22	7,151489E+22	7,151527E+22	1,482741E+23	1,430302E+23	2,913043E+23
2984	7,413407E+22	7,413440E+22	7,151522E+22	7,151557E+22	1,482685E+23	1,430308E+23	2,912993E+23
2985	7,413598E+22	7,413757E+22	7,151568E+22	7,151533E+22	1,482735E+23	1,430310E+23	2,913046E+23
2986	7,413553E+22	7,413460E+22	7,151507E+22	7,151488E+22	1,482701E+23	1,430300E+23	2,913001E+23
2987	7,413408E+22	7,413385E+22	7,151501E+22	7,151431E+22	1,482679E+23	1,430293E+23	2,912972E+23
2988	7,413665E+22	7,413686E+22	7,151398E+22	7,151440E+22	1,482735E+23	1,430284E+23	2,913019E+23
2989	7,413454E+22	7,413302E+22	7,151328E+22	7,151438E+22	1,482676E+23	1,430277E+23	2,912952E+23
2990	7,413387E+22	7,413514E+22	7,151416E+22	7,151330E+22	1,482690E+23	1,430275E+23	2,912965E+23
2991	7,413553E+22	7,413635E+22	7,151343E+22	7,151317E+22	1,482719E+23	1,430266E+23	2,912985E+23
2992	7,413338E+22	7,413224E+22	7,151357E+22	7,151337E+22	1,482656E+23	1,430269E+23	2,912926E+23
2993	7,413470E+22	7,413555E+22	7,151456E+22	7,151352E+22	1,482702E+23	1,430281E+23	2,912983E+23
2994	7,413485E+22	7,413441E+22	7,151402E+22	7,151413E+22	1,482693E+23	1,430282E+23	2,912974E+23
2995	7,413292E+22	7,413335E+22	7,151400E+22	7,151447E+22	1,482663E+23	1,430285E+23	2,912947E+23
2996	7,413572E+22	7,413719E+22	7,151441E+22	7,151508E+22	1,482729E+23	1,430295E+23	2,913024E+23
2997	7,413532E+22	7,413371E+22	7,151453E+22	7,151540E+22	1,482690E+23	1,430299E+23	2,912990E+23
2998	7,413504E+22	7,413487E+22	7,151593E+22	7,151463E+22	1,482699E+23	1,430306E+23	2,913005E+23
2999	7,413758E+22	7,413780E+22	7,151567E+22	7,151529E+22	1,482754E+23	1,430310E+23	2,913063E+23